

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

DECEMBER 15, 1949

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Picea Glauca Densata

SEEDS

TREE—SHRUB—PERENNIAL
FLOWER—VEGETABLE—GRASS

HERBST BROTHERS
92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

Free catalog "Seeds for Nurserymen."



EASON'S GREETINGS

And our very Best Wishes for another prosperous year.

Business continues to be very good. Income in agriculture and urban areas remains high. Thousands of new homes are being built and thousands more are being remodeled. Farmers' interest in beautifying their homesteads, in planting windbreaks and in planting for soil and wild life conservation is at an all-time high. Our industry is in the enviable position of enjoying unprecedented demand with no important surpluses which might force prices to an unprofitable low level.

We are in position to help you get your share of this profitable business. While some items may be in short supply, our assortment is still quite complete. Let us quote on your want lists.

I and my co-workers here at Mount Arbor thank you for your business and wish you a Happy Christmas and the best of health and good cheer all the New Year!

E. S. Welch, President

Mount Arbor Nurseries
Shenandoah, Iowa

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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CONTENTS

Hardiness of Some Shrubs.....	7
By L. R. Quinlan	
Plants for Seashore Planting.....	9
By Clarence E. Lewis	
Minnesota Meeting Sets New High.....	11
Yews for Nurseries and Gardens.....	13
By M. B. Cummings	
Plant Notes Here and There.....	16
By C. W. Wood	
Editorial.....	6
—Merry Christmas!.....	6
—Capital Turnover.....	6
—Management.....	6
Harold S. Reid.....	12
New Euonymus for Hedging.....	12
A. A. N. Conferences at Chicago.....	12
Eastern Convention Chairman and Speaker.....	14
—Valleau C. Curtis (Portrait).....	14
—Harold G. Seyler (Portrait).....	14
Coming Events.....	20
—Meeting Calendar.....	20
—National Landscape Nurserymen to Meet.....	20
—Eastern Regional Registra- tion by Mail.....	20
—Indiana Program.....	23
—Idaho Dates Set.....	26
—Indiana Arborists.....	26
—Oregon Date.....	26
—Tennessee Dates.....	26
Cover Illustration.....	26
—Picea Glauca Densata.....	26
Henry Field Rose.....	27
This Business of Ours.....	28
—Shedding of Evergreen Leaves.....	28
—Investment Side Lines.....	28
Obituary.....	30
—Roland deWilde, Sr.....	30
—Howard W. Ford.....	30
—Eugene Thomas Gaston.....	30
—Mrs. Elizabeth M. Winslow.....	31
—Emmett J. Plingstl.....	31
—Edward Fraim.....	31
Blue Star Highway Planted in Connecticut.....	32
Southwestern Notes.....	33
Oklahomans Honored.....	34
Dwarf Plants.....	34
California Association of Nurserymen.....	36
—Saves Members Cost of Dealers' License Fees.....	36
—Los Angeles Meeting.....	37
—San Fernando Chapter Officers.....	38
—San Joaquin Program.....	38
—Superior Chapter Elects Officers.....	38
—Two Meetings of Superior Chapter.....	39
—Centinela Meeting.....	39
California Notes.....	40
Burlap Bag Tax Voided by Alabama Court.....	54
Autumn Foliages.....	55

INDEX TO ADVERTISERS

Alanwold Nursery	26	Gro-Quick	50	Perry Nursery Co., O. H.	33
Allen Co.	55	Growers Exchange, Inc.	32	Peterson & Dering	40
American Bulb Co.	36			Pierson, Inc., A. N.	24
American Florist Supply Co.	58	Half Moon Mfg. & Trading Co.	34	Plant Marvel Laboratories	48
Andrews Nursery Co.	37	Halpern Bros.	58	Plumfield Nurseries	18-22
Anthony & Co.	49	Harrison Bros. Nurseries	35	Pontiac Nursery Co.	37
Ariens Co.	50	Hearley's Nurseries	22	Portland Whlse. Nursery Co.	41-58
Arp Nursery Co.	21	Henry Nurseries	33	Premier Peat Moss Corp.	47
Arterburn Nursery, Paul.	33	Herbst Bros.	1	Premier Southern Ticket Co.	52
Atkin's Sons, L.	58	Hess' Nurseries	23	Princeton Nurseries	27
		Hill Nursery Co., D.	60		
Bagatelle Nursery	26	Hill's Nursery	52	Rambo's Whlse. Nurs., L. J.	37
Bailey Nurseries, J. V.	32	Hobbs & Sons, Inc., C. M.	32	Ra-Pid-Gro Corp.	15
Benedict, C. H.	37	Horsford, William Crosby	22	Ravensberg, Maurice C.	34
Besuden Nurseries	37	Howard Rose Co.	39	Rhode Island Nurseries, The	24
Blackwell Nurseries	28	Huebner's Evergreen Nursery	25	Rich & Sons Nursery	40
Blue Ridge Nursery	18	Humphrey's Landscape Service	32	Ritter's Nursery	30
Bobbink & Atkins	25			Roberts Nurseries, Inc.	35
Bond Equipment Co.	48	Ilgenfritz Nurseries, Inc.	24	Robinson Sales Agency, E. D.	16
Boxwood Gardens	28			Rollers Nursery	29
Boyd Nursery Co.	33	Jewell Nurseries, Inc.	32	Romines Plant Farm	35
Broadway Machine & Mfg. Co.	58	Johnston, Wm. A.	40	Roper Mfg. Co.	53
Brouwer's Nurseries	28			Rough Bros.	49
Brown Deer Nurseries	30	Kallay Bros. Co.	32		
Brownell Roses	26	Keeler's Gardens	37	Scarff's Sons, W. N.	27
Bryant's Nurseries	31	Keeling Nursery Forrest	31	Schwarz Paper Co.	50
Buntings' Nurseries, Inc.	35	Kelly Bros. Nurseries, Inc.	37	Semmes Nursery	28
Burr & Co., C. R.	5	Koster Nursery	23	Shamburger Nursery, Carl	23
Burton's Hilltop Nurseries	32	Krieger's Wholesale Nursery	25	Shepard Nurseries	27
				Sherman Nursery Co.	32
California Nursery Co.	36	LaBars' Rhododendron Nursery	26	Sherwood Nursery Co.	40
Carlton Nursery Co.	41	Lake's Shenandoah Nurs.	31	Siebenthaler Co., The	31
Carpenter & Co., Geo. B.	48	Lansing Specialties Mfg. Co.	50	Sizemore, Charles	36
Champion Sprayer Co.	55	Leeland Farms	21	Slingerland, J. H.	36
Chase Co., Benjamin	58	Leghorn's Evergreen Nurs.	21	Smith Corp., W.-T.	25
Claredon Gardens & Nursery	30	Lemke & Co., Inc., B. L.	52	Sneed Nursery Co.	29
Classified Ads	42-43-44-45	Leonard & Son, A. M.	53	Snyder Mfg. Co.	52
Cloverset Flower Farm	17	Lindig's Mfg. Co.	53	Soil Research Laboratories	54
Commercial Nursery Co.	37	Loewith, Inc., Julius	53	Somerset Rose Nursery	54
Conigisky, B. F.	55	Lovett, Lester	22	Southern Nursery & Landscape Co.	33
Co-operative Rose Growers	27			State Road Nursery	26
Cottage Gardens	31	Maloney Bros. Nursery Co., Inc.	34	Sterling Bag & Burlap Co.	55
Crystal Soap & Chem. Co.	54	Manten's Nursery	34	Stribling's Nurseries	40
Curtis Nurseries	26	Mathews Co.	48	Sudbury Soil Test Lab.	52
		Maxwell, Bowden & Rice, Inc.	24	Suncrest Evergreen Nurseries	22
Dayton Fruit Tree Label Co.	52	Maywood Rose Nursery	41		
Deerfield Nurseries	22	McGill & Son, A.	41	Taylor & Sons, L. R.	37
Del Rancho Fortuna	40	McIninch Greenhouses	31	Tension Envelope Corp.	51
Doerfler & Sons, F. A.	41	McMinnville Tree Co.	33	Tingle Printing Co.	55
Doty & Doerner, Inc.	41	Meehan Co., Thomas B.	26-58		
Dow Chemical Co.	49	Meyer's Nursery, M.	29	Universal Mfg. Co.	53
		Milton Nursery Co.	41		
Eastern Shore Nurseries	18	Mitsch Nursery	41	Vanderbrook & Son, C. L.	26
Evergreen Nursery Co.	30	Monrovia Nursery Co.	39	Van Herreweghe, Wm.	34
		Moran, E. C.	36	Vennard's Nursery	31
F & F Nurseries	25	Morrison & Sons, J. J.	51	Verhalen Nursery Co.	28
Fairview Evergreen Nurs.	22	Mount Arbor Nurseries	2	Verkade's Nurseries	24
Felins Tying Machine Co.	52	Mt. Hood Nursery	40	Vuyk Van Nes Nurseries	34
Forest Hills Nursery	32	Mullins Plant Farms	37		
Forest Nursery Co., Inc.	30	Musser Forests, Inc.	16		
Foster Nursery Co., Inc.	35			Want Ads	46
Frank's Market Garden	50	National Landscape Inst.	38	Washington Nurseries	40
Fraser Nursery, Inc., Samuel	28	Natorp Co., W. A.	31	Watkins, E. E.	48
Friday, Victor	52	New Amsterdam Import Co.	53	Waynesboro Nurseries	35
		Newport Nursery Co.	29	Wayside Gardens Co.	29
G.I. Surplus Distributing Co.	53			Weeks Whlse. Rose Grower	38
Galletta Bros. Blueberry Farms	35	Ohio Nursery Label Co.	54	Weller Nurseries Co., Inc.	33
Garden Chemical Co.	54	Onarga Nursery Co., Inc.	34	Westerbeek & Son, Inc., C.	34
Garden Shop, Inc.	54	Ozarks Plant Farms, Inc.	33	Western Assn. of Nurserymen	20
Gardner's Nurseries	59			Westminster Nurseries	25
General Package Corp.	58	Pacific Coast Nursery	38	West Virginia Chestnut Nursery	36
Glen St. Mary Nurseries Co.	21	Pacific Northwest Rose Nursery	41	Williams & Harvey Nurseries	55
Gold Chestnut Nursery	28	Pallack Bros. Nurseries, Inc.	25	Williams, Isaac Langley	26
Gresham's Nursery	23	Payne Dahlia Farms	31	Willis Nursery Co.	19
Grootendorst & Sons, F. J.	34			Willowbend Nursery	37
				Wonderland Nurseries	29

Forms for the January 1 issue will close Monday, December 19.

Mail copy to arrive at Chicago by that date—no later!

Season's Greetings

We would like to take this opportunity to extend our best wishes for a Happy Holiday Season and to thank our many friends for the confidence placed in the Burr Organization and for their patronage this past year.



C. R. BURR & COMPANY, Inc.

Manchester, Conn.

"Growing Since '98"



AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

MERRY CHRISTMAS!

As the year nears its close, the spirit of yuletide increases its hold upon all of us. Anticipation of the holiday season not only is heightened by the planning and shopping of all members of the family, but it is also fostered by the decorations, the merchandise, the wrappings and the trimmings of the stores and shops. The spirit of the giver prevails in the market place as well as in the home.

Someone has remarked that if the spirit which pervades the business world at Christmastime could be extended throughout the year, overwhelming progress would be made toward attainment of the true Christian spirit in the interest of each one of us for his brother. In the past half century the business world has made tremendous strides in that direction, for the old-time excuse of caveat emptor has been largely displaced by observance of the golden rule in modern business, at least in its upper strata.

During the year each business house of standing strives to make its customers its friends. Success in that respect is responsible for the lasting good will and prosperity that such relationship brings. In gratitude for the good fortune that the past year has brought, in which the participation of customers and friends is recognized, there is warmth and cheer in the business greetings, as in the more closely personal exchanges, that convey the wish of a Merry Christmas. So say we here!

CAPITAL TURNOVER

Such statistics as are available show a wide variation in capital turnover in nursery enterprises. This is to be expected in view of the wide variation in the types of business. The salesyard operator and the landscape planter must turn their capital several times a season to make a profitable showing. Their capital investment is relatively smaller than that of the grower, whose capital turnover is slow in comparison. Anyone who studies the financial reports of large corporations, having a heavy capital investment, will note that annual sales usually exceed the capital

in profitable years, but may fall below it in less favorable periods. Even that generalization cannot be made too definitely, because some large industrial corporations make good profits without their sales approaching their capital investment.

Generally speaking, the smaller the business and the lower-priced the units of sale, the more rapid must be the capital turnover in order for the business to show a profit. The haberdasher has a different rate from a grocery store, and a candy store a quite different rate from a luggage shop.

To provide any basis for comparison, one should have figures from a good many firms in the same type of operation, as salesyard, landscape



planter, catalog firm, agency house or wholesale grower. Even growers will vary in accordance with the type of stock produced, whether deciduous shrubs or coniferous evergreens.

But, even if the rate of capital turnover varies in accordance with the size of operation, price of merchandise and character of stock, there are other factors which enter into the picture less legitimately. The salesyard operator who buys a poor selection of merchandise and has some of it hang fire makes a poor showing. The grower who hangs on to blocks of stock that moves slowly and must ultimately be grubbed out fares worse. The nurseryman who likes to grow new things for experiment slows his rate of turnover unless he keeps those items out of the commercial picture by charging them to research or hobby.

Someday nurserymen will have statistics for comparison in this and other accounting phases of their business. But, in the meantime, each operator can study his own rate of capital turnover to see whether he is really operating his business as profitably as he might.

The Mirror of the Trade

MANAGEMENT.

The aspects of management in the operation of a business may be less clearly defined than some of the subsidiary phases, such as production, transportation, selling, advertising or bookkeeping, but it is most important to the continued success of the enterprise. Aside from the failures due to lack of skill in running a business, one can see many enterprises that look like an ill-placed tree or shrub—luxuriant on one side and stunted on the other.

Such deformity usually arises from the limited experience of the business manager. He may have been a successful salesman for a large firm and decided that he could do better on his own. But his unfamiliarity with other aspects of the business, such as buying, cost accounting and production, may handicap his operations, at least until he has time to learn them.

Similarly, a man who has been an expert grower in the employ of another nursery finds he has much to learn when he goes into business for himself. He must learn how to select his markets, how to meet, sell and service customers and how to advertise effectively. Then there are local license requirements, state regulatory matters, employee relations, taxes and legislation to trip him up.

To learn to manage one's own business successfully is to accumulate a broad knowledge of a variety of subjects. Today, mechanical equipment, transportation and finances require more special knowledge than in days gone by. The small nursery operator must constantly be learning, and, even after his business has grown to the size where he may employ superintendents or specialists, he still needs to learn more. Credit policies and collection methods add their demands, while accounting and research become of cumulative importance.

No matter what preliminary education in horticulture or in business management may have been gained by the beginner in the nursery field, he must learn how to apply his acquired knowledge to the specific problems of his own business. Then, as new developments require his attention from year to year, he must study and learn still more. There is no letup in the task of operating a successful business. One must strive to go forward to be sure of maintaining his position.

Hardiness of Some Shrubs

By L. R. Quinlan

Shrubs growing under similar conditions of exposure and temperature may show a wide range in the amount of winter damage from year to year. During some winters the amount of damage at a given temperature will be severe, while in another year, the same temperature, or even lower temperatures, may not cause appreciable damage.

This difference in winter injury may be because of one or several factors, which include the maturity or age of the plant, the length of its rest period, its stage of dormancy, prevailing soil type and moisture, the depth of snow or mulch, the rapidity of the rise in temperature following excessively low temperatures, the intensity of sunshine on the plants and the wind velocity.

In the shrub collection at the Kansas agricultural experiment station, Manhattan, reaction to low temperature was recorded on all shrubs after the November 12 freeze in 1940. This damage was compared later with that which occurred after the unusually low temperature on January 4, 1947.

NOVEMBER, 1940, TEMPERATURES.

Maximum and minimum Fahrenheit temperatures for seven days preceding and seven days following November 11, 1940.

Date	Max.	Min.
November 3	73	54
November 4	70	48
November 5	49	37
November 6	52	28
November 7	60	28
November 8	61	42
November 9	59	45
November 10	50	47
November 11	50	16
November 12	23	12
November 13	29	1
November 14	21	2
November 15	33	5
November 16	53	23
November 17	64	26
November 18	69	45

Observation showed that the damage to some plants November 12, 1940, when the temperature went to 1 degree, was much more severe than in 1947, when the temperature went down to 31 degrees below zero on January 4, while other plants showed just the opposite effects, and some plants showed about equal damage both years. There seems to be no

question that the dormancy of the plant, or the time of the initiation of the rest period, had an influence on these relative amounts of winter damage, but it is difficult to explain why damage was more severe when the plants were dormant in 1947 than when they were growing quite vigorously in 1940. For instance, *Regel privet* and *Thuja orientalis* were not materially damaged by the November freeze, 1940, but were badly injured by the low temperature on January 4, 1947.

JANUARY, 1947, TEMPERATURES.

Maximum and minimum Fahrenheit temperatures for seven days preceding and seven days following January 4, 1947.

Date	Max.	Min.
December 28	42	11
December 29	12	1
December 30	15	-9
December 31	17	0
January 1	24	2
January 2	22	7
January 3	8	-12
January 4	13	-31
January 5	28	-1
January 6	41	4
January 7	44	17
January 8	48	22
January 9	50	16
January 10	51	36
January 11	44	33

The influence of the age of a plant on winter damage is clearly brought out in the records on *Oriental arborvitae*. Young plants showed severe damage in 1940, while the old plants were not damaged. The opposite effects from the 1947 freeze were observed; i.e., the older trees showed the greater injury. This can be explained by the fact that young trees do not reach dormancy so early as older plants, but when young ones reach dormancy they can stand lower temperatures than old plants.

The table at the right shows the comparative winter injury from the two damaging freezes to the top growth of a few kinds of shrubs. No shrubs in the shrub collection of approximately 300 species and varieties were killed by either freeze, and all of the shrubs that were killed to the ground came out again the next year. Soil moisture was ample for normal plant transpiration in both instances. There were seven inches of snowfall January 4, 1947, but none on November 11, 1940. Data were taken in June, 1941, and June, 1947.

The most practical application that might be made from a study of the

hardiness of shrubs would be to select those species and varieties which have shown the least damage over a period of many years and to plant the tender shrubs only in small numbers. There are several things that the grower can do to help plants resist injury from low temperatures. He can provide more ideal growing conditions for plants by cultivating properly, watering, fertilizing and controlling injurious insects and diseases. Plants should be given the best growing conditions at the time of greatest growth, which, for most plants, is spring and early summer instead of late summer and early fall, when plants should be entering their period of dormancy. Forcing plants into growth at the wrong time will make them more susceptible to winter injury. Winter watering is important to prevent the plants from freezing dry.

The application of suitable mulches and covers to keep the plants cold, not warm, and to prevent alternate freezing and thawing is obviously good practice under most conditions, but it is not always practical.

The protection of plants against winter sun and strong winds is important in reducing winter damage. This is substantiated by the fact that many ornamental shrubs will survive winter conditions in the far north.

PER CENT OF INJURY TO TOP GROWTH.

Nov. 12, 1940 Jan. 4, 1947
1 degree F. -31 degrees F.

<i>Spiraea vanhouttei</i>	60	0
<i>Spiraea thunbergi</i>	30	30
<i>Spiraea froebeli</i>	75	90
<i>Spiraea</i> , Anthony		
<i>Waterer</i>	75	80
<i>Weigela florida</i>	100	85
<i>Hibiscus syriacus</i>	10	0
<i>Exochorda racemosa</i> ..	50	10
<i>Regel privet</i>	15	85
<i>Viburnum</i>		
<i>rhytidophyllum</i>	100	20
<i>Pyracantha coccinea</i> ..		
<i>lalandi</i>	100	0
Hybrid tea roses	100	20
Polyantha roses	100	0
Climbing roses	60	5
<i>Thuja orientalis</i>	10	80

or at high altitudes, but will not prove hardy in warmer climates. Shrubs growing on the north sides of buildings likewise often will show less winter injury than those planted in full sun. Damage results from open winters with intense sunshine and alternate freezing and thawing with-

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Maximum and minimum Fahrenheit temperatures for seven days preceding and seven days following January 4, 1947.

Date	Max.	Min.
December 28	42	11
December 29	12	1
December 30	15	-9
December 31	17	0
January 1	24	2
January 2	22	7
January 3	8	-12
January 4	13	-31
January 5	28	-1
January 6	41	4
January 7	44	17
January 8	48	22
January 9	50	16
January 10	51	36
January 11	44	33

The influence of the age of a plant on winter damage is clearly brought out in the records on Oriental arbutus. Young plants showed severe damage in 1940, while the old plants were not damaged. The opposite effects from the 1947 freeze were observed; i.e., the older trees showed the greater injury. This can be explained by the fact that young trees do not reach dormancy so early as older plants, but when young ones reach dormancy they can stand lower temperatures than old plants.

The table at the right shows the comparative winter injury from the two damaging freezes to the top growth of a few kinds of shrubs. No shrubs in the shrub collection of approximately 300 species and varieties were killed by either freeze, and all of the shrubs that were killed to the ground came out again the next year. Soil moisture was ample for normal plant transpiration in both instances. There were seven inches of snowfall January 4, 1947, but none on November 11, 1940. Data were taken in June, 1941, and June, 1947.

The most practical application that might be made from a study of the

hardiness of shrubs would be to select those species and varieties which have shown the least damage over a period of many years and to plant the tender shrubs only in small numbers. There are several things that the grower can do to help plants resist injury from low temperatures. He can provide more ideal growing conditions for plants by cultivating properly, watering, fertilizing and controlling injurious insects and diseases. Plants should be given the best growing conditions at the time of greatest growth, which, for most plants, is spring and early summer instead of late summer and early fall, when plants should be entering their period of dormancy. Forcing plants into growth at the wrong time will make them more susceptible to winter injury. Winter watering is important to prevent the plants from freezing dry.

The application of suitable mulches and covers to keep the plants cold, not warm, and to prevent alternate freezing and thawing is obviously good practice under most conditions, but it is not always practical.

The protection of plants against winter sun and strong winds is important in reducing winter damage. This is substantiated by the fact that many ornamental shrubs will survive winter conditions in the far north.

PER CENT OF INJURY TO TOP GROWTH.

Nov. 12, 1940 Jan. 4, 1947
1 degree F. -31 degrees F.

Spiraea vanhouttei	60	0
Spiraea thunbergi	30	30
Spiraea froebeli	75	90
Spiraea, Anthony		
Waterer	75	80
Weigela florida	100	85
Hibiscus syriacus	10	0
Exochorda racemosa	50	10
Regel privet	15	85
Viburnum		
rhytidophyllum	100	20
Pyracantha coccinea		
lalandi	100	0
Hybrid tea roses	100	20
Polyantha roses	100	0
Climbing roses	60	5
Thuja orientalis	10	80

or at high altitudes, but will not prove hardy in warmer climates. Shrubs growing on the north sides of buildings likewise often will show less winter injury than those planted in full sun. Damage results from open winters with intense sunshine and alternate freezing and thawing with-

Contribution No. 225, Department of Horticulture, Kansas agricultural experiment station.

out the protection of heavy coverings of snow.

Much of the failure of ornamental plants to survive in yards results from the utter disregard of homeowners for the adaptability of certain plants to exposure to sun, shade and wind and their requirements as to moisture and type of soil.

The following lists show the extent of damage to top growth of some shrubs from a temperature of 31 degrees below zero on January 4, 1947:

NO GROWTH DAMAGE TO TOP GROWTH.

Aesculus pavia
Amelanchier alnifolia
Amelanchier canadensis
Amelanchier laevis
Amelanchier sanguinea
Amelanchier stolonifera
Amorpha canescens
Amorpha fruticosa
Amorpha fruticosa tennesseensis
Amorpha glabra
Aronia arbutifolia
Aronia arbutifolia brilliantissima
Aronia melanocarpa
Berberis thunbergi
Berberis thunbergi, box
Berberis thunbergi erecta
Berberis vulgaris
Berberis vulgaris atropurpurea
Calycanthus floridus
Caragana arborescens
Caragana boisi
Caragana frutex
Caragana microphylla
Caragana pygmaea
Caragana sophoraefolia
Caryopteris mongholica
Cercocarpus montanus
Cotinus coggygia
Cotoneaster acutifolia
Cotoneaster horizontalis
Cotoneaster lucida
Cotoneaster multiflora
Deutzia lemoinei
Elaeagnus commutata
Euonymus atropurpureus
Euonymus bungeanus
Euonymus hamiltonianus
Euonymus nanus
Euonymus yedoensis
Hamamelis vernalis
Hamamelis virginiana
Hibiscus syriacus
Hydrangea arborescens
Hydrangea paniculata
Hypericum frondosum
Hypericum prolificum
Ligustrum amurense
Lonicera bella
Lonicera chrysantha
Lonicera korolkowi zabeli
Lonicera maacki podocarpa
Lonicera morrowi
Lonicera ruprechtiana
Lonicera tatarica alba
Lonicera tatarica rosea
Lonicera tatarica siberica
Philadelphus coronarius
Philadelphus grandiflorus
Philadelphus lemoinei
Philadelphus lewisii
Philadelphus microphyllus
Potentilla fruticosa
Prunus americana
Prunus angustifolia
Prunus hortulana
Prunus maritima
Prunus munsoniana
Prunus virginiana melanocarpa

Pyracantha coccinea lalandi
Rhamnus caroliniana
Rhamnus cathartica
Rhamnus frangula
Rhus aromatica
Rhus glabra
Rhus trilobata
Rhus typhina
Rhus typhina laciniata
Ribes alpinum
Ribes aureum
Ribes missouriense
Robinia hispida
Rosa hugonis
Rosa rubrifolia
Rosa rugosa
Rosa setigera
Rosa wichuraiana
Rubus odoratus
Salix purpurea nana
Sambucus cerulea
Shepherdia argentea
Sorbaria sorbifolia
Spiraea bumalda Anthony Waterer
Spiraea japonica ovalifolia
Spiraea vanhouttei
Staphylea trifolia
Symphoricarpos albus
Symphoricarpos occidentalis
Symphoricarpos orbiculatus
Symphoricarpos oreophilus
Syringa amurensis
Syringa persica
Syringa villosa
Syringa vulgaris
Tamarix hispida
Tamarix odessana
Tamarix pentandra
Viburnum cassinoides
Viburnum dentatum
Viburnum lentana
Viburnum lentago
Viburnum molle
Viburnum opulus
Viburnum opulus roseum
Viburnum prunifolium
Viburnum rafinesquianum
Yucca filamentosa
Yucca glauca

LIGHT DAMAGE TO TOP GROWTH.

Berberis julianae
Berberis koreana
Berberis sargentiana
Berberis thunbergi atropurpurea
Buddleia alternifolia
Cephalanthus occidentalis
Cercis canadensis
Cercis reniformis
Chaenomeles lagenaria
Chaenomeles lagenaria alba
Cotoneaster divaricata
Euonymus alatus
Euonymus europaeus
Euonymus kiautschovicus
Exochorda racemosa
Forsythia intermedia
Forsythia intermedia densiflora
Forsythia intermedia primulina
Forsythia intermedia spectabilis
Forsythia suspensa
Forsythia suspensa fortunei
Forsythia viridissima
Ligustrum vulgare
Lonicera korolkowi
Lonicera maacki
Mahonia aquifolium
Mahonia fremonti
Mahonia haematocarpa
Physocarpus alternans
Physocarpus capitatus
Physocarpus opulifolius
Prunus tomentosa
Rhamnus davurica
Rhus copallina
Sambucus canadensis
Spiraea arguta
Spiraea billardi

Staphylea pinnata
Syringa chinensis
Viburnum rhytidophyllum

MEDIUM DAMAGE TO TOP GROWTH.

Berberis mentorensis
Caryopteris incana Blue Mist
Chaenomeles japonica
Euonymus americanus
Ligustrum vulgare Thompson
Prunus besseyi
Prunus glandulosa
Prunus triloba
Rhamnus utilis
Rhodotypos scandens
Rosa multiflora
Rubus deliciosus
Sambucus canadensis, Cutleaf
Spiraea prunifolia
Spiraea thunbergi
Symphoricarpos chenaulti
Viburnum burkwoodi
Weigela, Eva Rathke
Weigela vaniceki

SEVERE DAMAGE TO TOP GROWTH.

Albizia julibrissin rosea
Buddleia lindleyana
Callicarpa bodinieri girdali
Callicarpa dichotoma
Cercis chinensis
Colutea arborescens
Deutzia scabra
Deutzia wilsoni
Elaeagnus umbellata
Jasminum nudiflorum
Kerria japonica
Kerria japonica pleniflora
Kolkwitzia amabilis
Ligustrum acuminatum
Ligustrum ibolium
Ligustrum obtusifolium
Ligustrum obtusifolium regelianum
Lindera benzoin
Lonicera fragrantissima
Spiraea bumalda, Froebel
Spiraea cantoniensis
Spiraea tomentosa
Tamarix chinensis
Tamarix gallica
Tamarix juniperina plumosa
Viburnum tomentosum
Vitex agnuscastus
Vitex negundo incisa
Weigela florida

The evergreen shrubs in the following list suffered severe damage to foliage in the temperature of 31 degrees below zero on January 4, 1947. Defoliation was above the snow line, and the wood was not severely damaged:

SEVERE DAMAGE TO FOLIAGE.

Euonymus fortunei erectus
Euonymus kiautschovicus
Hypericum calycinum
Mahonia aquifolium
Mahonia fremonti
Mahonia repens
Pyracantha coccinea lalandi
Viburnum rhytidophyllum

PURCHASE of the Anderson Flower Shop, Grand Prairie, Tex., was recently made by Mr. and Mrs. Homer Stout. The shop was formerly operated in connection with their business called Stout's Nursery & Landscape, but will now be operated as Stout's Flower & Gift Shop.

Plants for Seashore Planting

By Clarence E. Lewis

Seashore planting has many meanings. To one it may include the planting of the sloping shore of an inland fresh water lake, to another the rocky overlook of the ocean, but to me it is the wind-swept sandy shore

ously object to this covering of salt. Sometimes, under tidal wave conditions, plants are completely covered with salt water for as long as twenty-four to thirty-six hours.

The only consolation lies in the

attempting an ocean shore planting job. Their salvation is that plants can be grown if the problem is approached wisely.

Since trees and shrubs are not adapted to shifting sand areas near the shore, we must begin these plantings with a good stabilizer, and the best for Long Island ocean fronts is *Ammophila arenaria*, European beach grass. This grass catches the sand and encourages it to build up around the plant so that a dune is soon built up. The larger the planting, the quicker the formation of the sand dune. Once the dune is formed, the sand farther inland is more easily stabilized and not so continually shifting.

European beach grass is happier in areas of moving sand and not too permanent in places where the sand has become settled, for it likes to have the sand continually build up around its stems. This grass is collected during the cool seasons of early spring, preferably not later than the middle of April, or late fall. Collections are made from established plantings where the old plant is undercut and then divided into many parts. Small buds, hidden beneath the leaf sheaths at the bases of stems, are responsible for the formation of new stems and the survival of the plant. After the culms are separated, they are cut back to about twenty inches and planted to a depth of about eight inches. Spacing is



A protected area 300 yards from the ocean at Jones Beach, where annuals, cotoneaster, Baltic ivy, juniper, holly, winterberry and other plants are growing.

of Long Island that borders the Atlantic ocean.

It is well to consider the conditions with which we are to be concerned. The soil, or loose sand, with which we must work is ever moving and a problem. It must be stabilized by some means if plants are to survive in it. The wind, which always blows along the seashore, causing the soil movement, also forces a higher rate of transpiration than would be common to the same plants under inland conditions, and since shade is usually found only under beach umbrellas at the seashore, the sun teams with the wind to cause plants to lose water at a rapid rate. The reflection of heat from the sand and water is no help, either. Besides these factors, the sand is, in most cases, without organic matter and is unable to support the growth expected of an inland soil. Salt spray does not alleviate the situation, since it moves inland and covers the foliage and stems of all near-by plants. The soft, young stems seri-

fact that moisture can be found only a short distance below the sandy surface. In some cases it is as near as six inches, at the shore, and only two to three feet deep farther inland.

These are the conditions with which nurserymen must work when

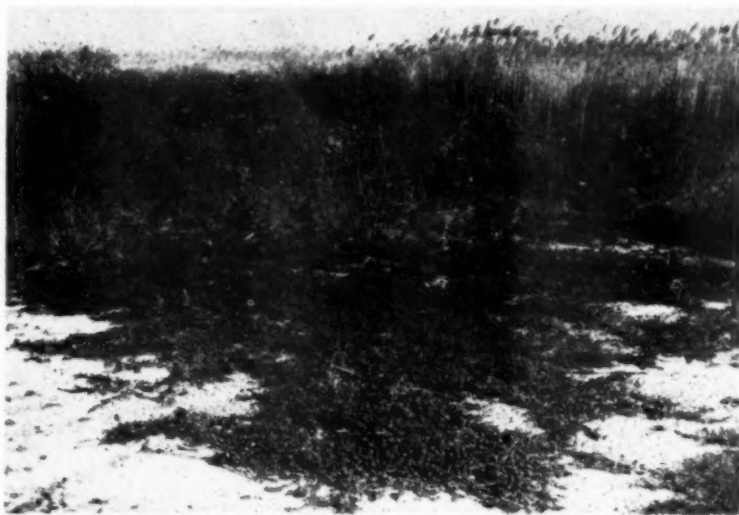


Illustration A—*Arctostaphylos uva-ursi*, bearberry, backed by *Myrica carolinensis*, bayberry.

Clarence E. Lewis is senior instructor in the school of horticulture at the Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

Illustrations through the courtesy of Long Island Park Commission.

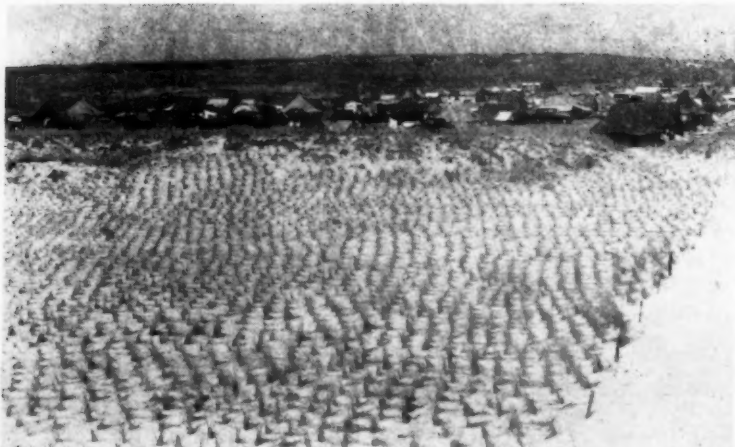


Illustration B—European beach grass after planting has been completed, at Hills state park, Long Island.

eighteen to twenty-four inches and is done so that there are no straight rows perpendicular to the shore. Straight rows allow the wind to carry the sand, instead of stopping it.

Ammophila breviligulata, American beach grass, is also a good sand stabilizer, seemingly well adapted to such inland regions as the Great lakes. Little beard grass has also been effectively used. This does better than the European beach grass in stabilized areas and can be collected, separated and planted in the same manner, only not so deep. Sowing its seeds has also brought results.

After the grasses have been used to establish the dune (see illustration B), other plants can be used. The most reliable shrub for this purpose is *Myrica caroliniensis*, northern bayberry, and the truly dependable tree is *Pinus thunbergi*, Japanese black pine. Young, nursery-grown bayberry and 3 to 4-year-old transplants of Japanese black pine (see illustration C) soon become established behind the dune formed by the beach grass.

Other plants become adaptable; some appear by natural seeding, but the rest need to be planted. A few of these are *Artemisia stellariana*, beach wormwood; *Lathyrus maritimus*, beach pea; *Parthenocissus quinquefolia*, Virginia creeper; *Arctostaphylos uva-ursi*, bearberry (see illustration A); *Lonicera japonica halliana*, Hall's Japanese honeysuckle; *Solidago sempervirens*, beach goldenrod; *Chrysopsis falcata*, golden aster, and *Oenothera biennis*, evening primrose. All are obtained by collecting except the following, which are, of course, found in nurseries: Virginia creeper, bearberry (if you search well) and Hall's Japanese honeysuckle.

There are many shrubs that do well near the seashore as long as they are somewhat protected from the strong onshore winds by heavy plantings of Japanese black pine and bayberry or by buildings. *Prunus maritima*, beach plum, stands considerable wind, but it is not quite so sturdy as bayberry under exposed conditions, although it combines well with it. *Baccharis halimifolia*, groundsel bush, or saltbush, provides showy white flowers in the fall for the protected areas. *Elaeagnus multiflora* and *E. umbellata*, the cherry and autumn elaeagnuses, with their silvery foliage and red fruits, are welcome additions and withstand much wind. The list grows as we include others, most of which require some protection from the wind. *Rosa rugosa*, Rugosa rose; *R. blanda*, meadow rose; *R. humilis*, Carolina rose; *R. nitida*, shining rose; *Pyraecantha coccinea lalandi*, Laland fire thorn, and *Ligustrum ovalifolium*,

California privet, need only a little protection, while *Ilex glabra*, inkberry; *Salix humilis* and *S. longifolia*, sand and sand-bar willows; *Aronia arbutifolia*, red chokeberry; *Amelanchier canadensis*, shadbush, which is often treelike, and *Cytisus scoparius*, Scotch broom, are not always dependable. The list continues and includes *Vaccinium corymbosum*, highbush blueberry; *Clethra alnifolia*, summer sweet, and *Ilex verticillata*, common winterberry. Such narrow-leaved evergreen shrubs as *Juniperus chinensis pfitzeriana*, Pfitzer juniper; *J. communis*, common juniper, and *J. horizontalis* Bar Harbor, Bar Harbor juniper, can also be used if they have good wind protection. Even *Hedera helix baltica*, Baltic ivy, and many others grow if the protection is complete and the soil well prepared.

The trees for seashore use do not give us so wide a selection of varieties, because of the terrific wind beating that they take with their taller growth. The best has already been mentioned, Japanese black pine. *Platanus acerifolia*, London plane tree, will not hold up so well as *Pinus thunbergi*, but, when it is planted farther inland or is well protected from the wind, it does a good job. *Populus alba*, white poplar, grows under shore conditions, but has the tendency to sucker.

There are many trees that will take the salt spray as long as they are not subjected to the full brunt of the wind. They include *Prunus serotina*, wild black cherry, which is often of a shrubby nature, and possibly *Acer pseudoplatanus* and *A. platanoides*, sycamore and Norway maples; *Nyssa sylvatica*, tupelo, or sour gum; *Quercus alba* and *Q. coc-*

[Concluded on page 35.]



Illustration C—*Pinus Thunbergi* with European Beach Grass and Poverty Grass.

Minnesota Meeting Sets New High

The twenty-fourth annual meeting of the Minnesota State Nurserymen's Association, at St. Paul, December 5 and 6, set a new high record in attendance and in quality of program, presaging something special for the celebration of its silver anniversary next year. Remodeling operations in the lobby of the Hotel Lowry discommoded the salesmen who, frequent that quarter, but the Fiesta (once Spanish) room comfortably held the meetings and banquet. At the opening luncheon eighty-eight were present, while the banquet drew over 140.

Officers were reelected upon the recommendation of the nominating committee, consisting of Paul Peters, Frank Seifert and Kimball Andrews. Ken Law is president, and Harold Reid, vice-president and treasurer. R. N. Ruedlinger was reappointed secretary by the board of directors at the close of the convention.

Gordon Bailey, St. Paul, and Melvin Bergeson, Fertile, were elected directors. Holdover directors are Terry Cashman, Owatonna; W. A. Coupanger, Elmore; Russell Zackariason, Hopkins, and Robert Wedge, Albert Lea, ex officio. Mr. Wedge was kept at home by a recent attack of influenza.

Tax Situation.

The opening session followed noon luncheon, December 5, when Treasurer Harold Reid presented a report that showed the association finances \$600 ahead of a year ago, and President Ken Law offered a few observations on the current business "climate" and suggested questions the members should consider at later sessions. The business climate to which he referred was that created by the high rate of taxation, federal and state. In the nursery industry, he asserted, prices were being well maintained, the volume of sales generally was up and profitable operations were possible if costs were kept in line, but heavy taxes prevent the accumulation of reserves which the prudent businessman requires to safeguard the future of his enterprise. The impact of higher transportation costs would, he declared, be felt by many firms in their year-end statements.

Taxes formed a part of the theme of the address by August Andresen, congressman from the first district of Minnesota, whose subject was "The American System vs. Social-

ism." Mr. Andresen, as a member of the House committee on agriculture, had become familiar with nurserymen's problems resulting from federal legislation, and he took the opportunity to commend the assistance received by the members of that committee from Richard P. White, executive secretary of the American Association of Nurserymen, and to compliment the latter on the type of Washington representative it possessed.

Mr. Andresen's address dwelt on the dangers of slowly encroaching socialism on the American system



Kenneth B. Law.

of free enterprise. He pointed out that the taxpayers must foot the bill for whatever paternal services the government provided, citing a survey that revealed eighty-four per cent of all taxes are paid by persons whose earnings are less than \$5,000 per year. Indirect taxes, he showed by examples, produced inflation by aggregating one-third of the price paid for many items, from bread to automobiles. In England he had seen that socialism, instead of benefiting the ordinary man, produced a bureaucracy that ruled his business and took away the incentive which had made America great.

Aiding Customers.

Original in character, the talk by Harold Parnham, of Robinson & Parnham, Des Moines, Ia., on "Doing More for the Customer," was packed with information. He related many details of advice which a nurseryman could give customers, as well as prospective customers, to earn their good will and, more to the

point, their planting orders. Such advice included, he said, whatever had to do with the home grounds and even to the location of the house on the grounds if advice was sought before the building was started. Laws affecting the homeowner contained some oddities of which customers might be informed to their profit.

Among concrete suggestions which might be given the homeowner, Mr. Parnham mentioned the following:

The picture window should be put where there is a picture to be seen—the garden in back of the house rather than the view of the public street.

A map of underground utilities, made during building or remodeling, is invaluable to prevent damage to cables and other difficulties in digging.

Grading should be done intelligently, and the backfill around the house done before the carpenters and other workmen make the trench a convenient dump.

Solid footings put under porches and steps will prevent their pulling away from the house later.

Waterproofing foundation walls and placing drain tile properly save subsequent expense.

Recommend good men or firms to do seeding or sodding, rock garden construction or tree surgery if you do not do this type of work yourself. If the homeowner wants to do it himself, tell him how. Recommend reliable yard men for maintenance work.

Call attention to the need for water faucets outside the house or on commercial buildings having a lawn or planting. They are frequently overlooked by the architect.

Recommend underground garbage containers. Suggest expansion joints in concrete where it meets house, garage and street walk, to avoid cracks later. Advise concrete walks be finished two inches above the grade for lawn.

Ignorance of laws leads sometimes to trouble and considerable financial loss. Lot lines should be staked with careful accuracy before hedges are set or other property line planting is done. Fences and hedges should be run with care—in Iowa such boundaries become the property line if undisturbed for eleven years. Community driveways are not recommended because of the same law.

The course of natural water cannot be changed within eight feet of

a neighbor's property; hence the need of care in grading. Downspout water cannot be piped into sewers in some cities, but must flow to the street.

Trees belong to the person on whose land the trunk grows, but the branches overhanging a neighbor's property can be lopped off by him up to the lot line. Crops on trees overhanging other property belong to the owner of the tree, but when fruit or nuts fall from the tree they belong to the owner of the land on which they fall.

Knowledge of building code laws, as to location of garages, etc., can be passed on to new homeowners to their benefit.

Mr. Parnham urged follow-up instructions to clients on care of lawn, trees and shrubs after planting. His firm sends out timely mimeographed post cards on wrapping young trees to prevent rodent injury in winter, on keeping dogs away from young evergreens, on watering evergreens on the approach of freezing weather, etc.

Information such as the foregoing is usually known to the landscape nurseryman. By passing it on, he makes friends, who in turn give him business.

Hardiness of Nursery Stock.

In Minnesota the hardiness of nursery stock is a constant problem. The talk on this subject by Dr. Leon Snyder, extension horticulturist at the University of Minnesota, covered the factors known to influence hardiness. These are sources of seeds or planting stock, growth habits, soil, effects

[Continued on page 47.]

HAROLD S. REID.

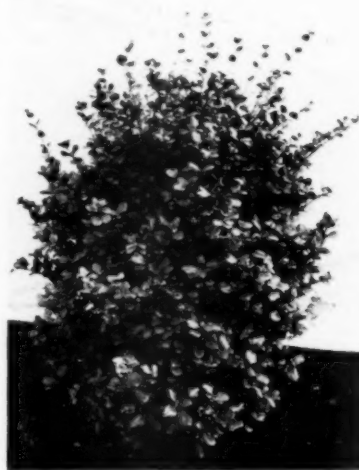
Reelected vice-president of the Minnesota State Nurserymen's Association last week, Harold Reid has also been treasurer of the association for a number of years and was elected to the executive board in 1947.

Now landscape architect and overseer of the Park Nurseries, Holm & Olson, Inc., St. Paul, Minn., Mr. Reid began his career as a gardener in 1910 and has been actively engaged in general landscape work since 1921. He now plans golf courses, parks, cemeteries, subdivisions, estates and home grounds throughout the northwestern United States.

Mr. Reid was graduated from the University of Illinois in 1917 and was commissioned by the United States Navy for duty in World War I, after being graduated from Navy school in 1918. He attended elementary and high school at St. Paul.

NEW EUONYMUS FOR HEDGING.

A new variety of *Euonymus fortunei*, which grows upright, unsupported, to about four or five feet and which would be excellent for use as hedging, because of its compact, neat growth, without trimming, has been patented by Clifford D. Corliss, general manager of Corliss Bros., Inc., Gloucester, Mass. The new variety, *Euonymus fortunei corlissi*, is a cross between the varieties *vegetus* and *radicans*. It is propagated asexually. According to a write-up in the October 29 edition of the Gloucester Daily



Euonymus Fortunei Corlissi.

Times, variety *corlissi* has been acclaimed by horticulturists as a broad-leaved evergreen which can be produced in quantity and sold in the low-priced range. It will not be available to the public until 1951.

Sixteen years ago Mr. Corliss began his search for a low-priced, broad-leaved evergreen, which could be adapted to a variety of plantings. By the careful, painstaking process of breeding and eliminating, he achieved the *corlissi*, which is adaptable to many settings, likes average garden soils, withstands rugged temperatures as low as 20 degrees below zero without winter burn and withstands extreme drought conditions. The new plant is perfectly erect, growing compactly from one central stem, and has none of the prostrate, vinelike tendencies of its parents. It makes a neat shrub without shearing.

Scale and other diseases apparently do not bother the new variety, for it has not been attacked up to the present time, according to Mr. Corliss. Another of its advantages is its strong, fibrous root system, which

permits the plant to be dug easily with a good ball of earth.

Euonymus fortunei corlissi bears deep green, glossy foliage and in the fall is decorated with clusters of bright orange berries of the bitter-sweet type. The leaves are somewhat broader and more ovate than those of *vegetus*. The form of the shrub is ovoid, being well bushed at the base. The evergreen leaves are three to five centimeters long and are opposite-petioled. They are broad-ovate to suborbicular, with crenate-serrate margin and apex emarginate. They are glossy-surfaced above and dull green beneath, having veins slightly more prominent on the upper side than on the lower. The texture is somewhat thicker than that of regular *vegetus*. Branchlets are medium green in color and minutely warty, with a tendency to form aerial rootlets on the older branches. Buds are elongated, pointed and imbricated, and they are lighter-colored than the branchlets.

The flowers of this variety grow in inconspicuous, 4 or 5-parted axillary cymes, and the fruit is subglobose and lobed. It comprises 3 to 5-celled capsules, with irregularly placed, spiny protuberances, seven to ten capsules growing to a cluster. The capsules are cream-colored, with a pinkish tinge, and open to expose the bright orange arils, which cover the white seeds.

A. A. N. CONFERENCES. AT CHICAGO.

Returning from a trip to the Texas rose fields the week before, James Ilgenfritz, president of the American Association of Nurserymen, met Secretary R. P. White at Chicago December 4, together with W. J. Smart and George Rose, members of the association's transportation committee. Conferring as to action on increased freight rates, they adjourned to meet again at Chicago December 9, with Harry Malter, the third committee member, on his return from the Texas rose fields, in order to engage attorneys to present the nurserymen's case to the Interstate Commerce Commission.

The same day, some twenty-five mail-order nurserymen met at Chicago to discuss with the association officers possible action in regard to the bills presented in Congress to increase postal rates and to limit the dimensions of parcel-post packages. Strenuous action is expected in opposition to this added burden of mail and transportation cost, which will affect all branches of the industry in some degree.

Yews for Nurseries and Gardens

By M. B. Cummings

The increasing popularity of yews in both nurseries and gardens justifies a review of their attributes and uses, as well as of methods of handling and the selection of species.

A more healthy evergreen has been needed for some years. Although the yew is not new, it is appreciated for its good qualities, for it is superior in some respects to other evergreens. Spruces are subject to galls and budworms, pines to the rust and weevils, arborvitae to brown burn and red cedars to cedar apples and brown burn. But yews do not appear to be afflicted with any of these diseases or insects.

The hardy nature of many species of *taxus*, the ease of handling, the beauty of the rich dark green foliage and attractiveness of the fruits are all qualities which make it a desirable plant for many places and numerous uses, as will be discussed in the following paragraphs.

Yews can be readily distinguished from other closely related species by the 2-ranked linear leaves, by the characteristics of the fruit and also by the stature and habit of growth. The leaves of yews are slim and leathery, broad at the base, pointed at the tip and rolled up slightly at the edges. On the under side they are pale green. The needles average from one-half to one and one-half inches long and are one-twelfth of an inch wide. No other species has leaves just like them. The rich color mass of the foliage also assists, even at a distance, in the recognition of yews. The habit of growth, which is slow, and the shape of different species are also clues in identifying yews from other evergreens, as will be mentioned later.

Winter tolerance and disease resistance are properties of interest to all plantmen. Yews withstand many soil types, perhaps more than other evergreens, but they thrive only in rich soil with plenty of moisture and good drainage. The roots need air from the soil, and surplus water excludes air. Land that is permanently wet or forever sterile is not suited to yews, nor is excavated soil.

Pruning and Training.

Almost every species needs shaping from the time they are small trees, until full size has been reached. A close, compact form is generally desired, but many specimens send out projecting branches, which result, if not corrected early, in loose, rangy

Avoiding discussion of the tangled nomenclature of *taxus* species and varieties, this article provides information on the uses and culture of yews for nurserymen just making the acquaintance of these plants, whose popularity is spreading as their propagation increases. Concise description is given of the popular forms, without seeking to include the lengthening list of varieties less widely grown.

specimens. Some trees will produce a spindling top unless cut back. Moreover, a loose, branchy specimen is not wanted. To avert too much open space at the bottom, head the plants back. Except when it is to be used as timber, the yew should branch out close to the ground.

Thus, it is evident that some pruning and training are needed from the beginning. A little studied attention each year will help greatly in achieving the desired form. Some good shapes or types may grow naturally in the nursery or garden, but most of them are the result of shaping with an idea of the grown tree in mind. It is well to head back from the start and cut back rangy branches, taking out crooked ones unless they are needed to fill an otherwise open space. A little pruning each year is better than much done at any one time. It is not possible to make amends for several years' neglect or carelessness.

In regard to the season for pruning, experience shows that cutting back in midsummer is best, for then the growth is not completed and cut ends or stubs will be partly concealed by more growth before fall. If a tree is transplanted several times, the necessity for much root pruning is averted. It is customary to transplant or root-prune yews when two years old. No cut ends should show, as they mar the beauty of the plant. Sharp shears will make clean smooth cuts. It is well to cut to a bud or to a side branch. A smooth, round-shaped tree is usually preferred, except when some special shape or form is wanted. It is well to prune in early summer rather than in late summer. The better grade plants grown for sale are transplanted previously in the nursery with roots pruned back for a compact, fibrous system. Such plants are worth a good price.

Yews stand hard, close clipping and respond well to it. The true low-

growing kinds need little shearing and in general they are better without it.

Transplanting Method.

The different species are generally grown in rows in the nursery and transferred to permanent places at any age up to 6 or more years. The precutting of roots helps in securing short, numerous and fibrous roots, a preliminary requirement for successful transplanting. Precutting to induce short fibrous roots in quantity in place of long ones is best done in late fall or early spring, a full year before transplanting. As the species does not originally form a taproot, the tendency of the roots is to spread; so these rangy roots need to be cut back, and fibrous ones should take their places. A sharp spade is thrust down through the root area about one foot out from the trunk, more or less according to size of the plants. The result of this root cutting is a compact root system, well adapted to the transplanting process, which assures survival of the plants. Packing the roots of the newly dug trees with moist soil or sphagnum moss at the time of bagging gives extra security of survival of the specimen. With these extra precautions yews may be successfully transplanted at almost any season of the year. These plants are easy to move. They require good soil until well established, but will thrive in sun or shade, and most of them will tolerate extremely cold places.

Species of *Taxus*.

One should not attempt to plant the English yew, *Taxus baccata*, in the northern states, as it is not fully hardy and is not likely to survive the colder winters in the north. But south of Pennsylvania it is quite satisfactory. Fortunately, however, there are dozens of species in addition to the English forms, and by careful selection of species one may secure those well adapted to his locality, as many are native to the northern hemisphere.

The Irish yew, *T. baccata hibernica*, is strictly fastigiate, pointing up with upright branchlets and radially arranged leaves. It is dark and glossy, with less peaked leaves than other yews, and is better adapted to the south central states.

The femina species, *T. cuspidata femina*, is an abundant-fruited one,

dwarf in size, but with good foliage, and is a fast-growing form.

The black yew, *T. cuspidata nigra*, has dark green foliage. It is less than a foot in diameter and is upright.

Hick's yew, *T. media hicksi*, is distinctly columnar in shape, with upright branches and radially spread leaves. It is hardier than the Irish yews.

The Hunnewell yew, *T. hunnewelliana*, is a natural cross between the Japanese and American species. It is intermediate in color of leaves and size of plant. In winter the leaves become slightly yellowish to bronze.

Of the Hatfield yews, which are hybrids, some are rather new, but most of them date back twenty-five years to the place of their origin, Wellesley, Mass. They are still listed by number as 2, 6, 7, 8, 18 and 23. *T. hatfield densa* and *T. hicksi* columnar are interesting departures from the common species. Hybrids and horticultural varieties seldom can be recognized except by a label.

The spreading Japanese yew, *T. cuspidata*, is a form of wide-spreading habit well suited for edging and hedges and may be purchased or grown in heights from twelve to thirty inches.

The tree form, *T. capitata*, is like the afore-mentioned, but distinctly erect in growth.

The compact yew, *T. densa*, is a low form, dense, sometimes becoming a hemispherical bush, and is handsome.

The dwarf yew, *T. cuspidata nana*, often denoted as the dwarf Japanese yew, is a shrubby form with spreading branches and closely clothed short branchlets, shorter and duller than the others. It is slow-growing and compact. Its special merits are its abundant-fruited habit and colored

seed cups. The femina species noted before is much like this one.

The western yew, *T. brevifolia*, which is natural to the northwest coast, is rarely cultivated. It has slender horizontal branches and is a tree forty feet high, with short leaves.

The Canadian yew, *T. canadensis*, often called the ground hemlock, is hardy and low-spreading and thrives

(Continued on page 51.)

EASTERN CONVENTION CHAIRMAN AND SPEAKER.

For the third time Valteau C. Curtis is serving as chairman for the annual convention of eastern nurserymen. The 1950 convention will be held January 4 to 6 at the Hotel Statler, New York, and the program plans appear on another page of this issue.

Valteau C. Curtis.

Valteau C. Curtis, of the Curtis Nurseries, Callicoon, N. Y., is a graduate of New York State College of Forestry, Syracuse University, in the class of 1925. He was born at Callicoon and attended high school there. He is a director and vice-president of the New York State Nurserymen's Association and has been chairman of the convention of eastern nurserymen since 1948. He is also past-president of the Eastern New York Nurserymen's Association, which office he held for four years, and he has been a delegate to the board of governors of the American Association of Nurserymen four times. He is a member of the Society of American Foresters.

During World War II, Mr. Curtis acted as director of farm labor for New York's Sullivan county and was also adviser to the selective service board and vice-chairman of the war bond drives in Sullivan county.

Besides his horticultural activities, Mr. Curtis is a director of the First National bank, Callicoon, and a member of the Kiwanis Club. He is a Freemason, belonging to the Delaware lodge, No. 561, and acting as representative of the Grand Lodge of Tasmania near the Grand Lodge of New York. He is also a member of Anthony Wayne Royal Arch chapter No. 204. His college fraternities are Sigma Beta and Pi Delta Epsilon.

When Mr. Curtis finds spare time for hobbies, he enjoys private flying.

Harold G. Seyler.

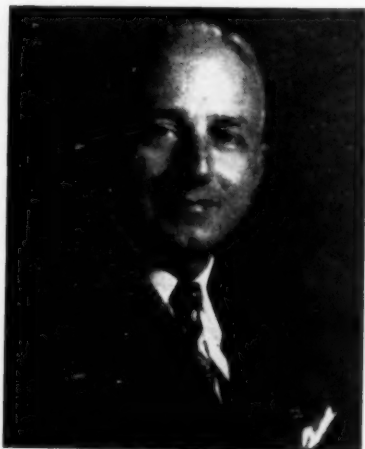
Harold G. Seyler, who will speak on "The Quest for Twenty Per Cent" January 5 at the 1950 convention of

eastern nurserymen, has been in the nursery business since 1920, when he became bookkeeper for Bertrand H. Farr, Farr Nursery Co., Weiser Park, Pa. Two years later he was made office manager and treasurer, and after Mr. Farr's death in 1924, he became part owner when he and two other employees purchased the business. In 1928 the Farr Nursery Co. was relocated at its present site. Mr. Seyler is now supervisor of nursery production and maintenance for the firm, which emphasizes its display garden and local sales. Mr. and Mrs. Seyler and their three children live in a new home on the nursery premises.

Coming from a family of school-teachers, it was only natural that Mr. Seyler should become a teacher, too. Graduating at 17 from State Teachers College, Kutztown, he taught in ungraded public schools for five years and acted as principal of a school before the outbreak of World War I. In both World War I and II he saw several years' service in the navy. Mr. Seyler is also a graduate of a business school at Reading, Pa., which he attended between teaching terms and where he later taught evening classes. However, an interest in the nursery business had been awakened in him when, as a child, he used to browse through the fruit and farm periodicals at his grandfather's farm.

For the past twenty years, Mr. Seyler has collaborated with Dr. A. B. Stout, New York Botanical Garden, in evaluating, selecting and introducing hybrid day lilies.

Mr. Seyler is a past president of the Pennsylvania Nurserymen's Association and a past chairman of the eastern regional convention. He has also been secretary of the Commercial Peony and Iris Growers' Association.



Valteau C. Curtis.



Harold G. Seyler.

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Plant Notes Here and There

By C. W. Wood

I never commence to write about a sedum but I think of the prejudice that exists in many quarters against the entire clan. It is fruitless to inquire into the reasons for this prejudice, and it makes little difference whether or not it came from avaricious and misinformed growers, ignorant gardeners, or others, for that is quite beside the point now; however, we must face the fact that a certain prejudice does exist and must be overcome before the good sedums can again come into their own. The neighborhood grower, with his opportunities to show the actual material, holds the main key to the situation. Although there are many good starting points for an adventure in popularizing stonecrops with one's customers, I cannot think of a better one than *Sedum nevi*.

This, a native of the eastern states, from Virginia and Illinois south to Alabama, is one of the better stonecrops, be it viewed from the standpoint of the plant enthusiast or the maker of landscape pictures. It is one of the cases of a plant which was widely distributed during the early years of our country's settlement and which even escaped the attention of the botanists for a long time. The available literature does not say just when it was found, though all agree that the Rev. R. D. Nevius was the discoverer. Meehan, writing in 1878, says that Dr. Nevius found it "on rocky cliffs near Tuscaloosa, Ala., within the past twenty years." It has therefore been known to botanists for less than a century, to gardeners for less than that and to most gardeners not at all. That is unfortunate, too, for it is one of the better stonecrops.

It may be that gardeners, thinking of it as an ordinary stonecrop, have allowed it to shift for itself along with the indestructible weeds like *S. acre* and *S. album*. If so, it is easy to understand why it is so seldom seen, for it needs a certain amount of care to make it permanent. The surest way to kill it that I know of, would be to put it in a dry sunny place along with *S. acre* and allow the two plants to fight it out. I suspect that our native would be parched by heat and drought long before *S. acre* had overcome it. In northern Michigan *S. nani* always does best in light shade, where it never suffers from lack of moisture.

Given that treatment, it slowly spreads its pretty rosettes of pale green to glaucous, spatulate leaves and in June sends up leafy flower stems to heights of three or four inches, each bearing a simple cyme with spreading or recurved branches of white flowers.

Praeger, whose monograph on the genus remains about the best treatment to date, gives the species only one variety, *beyrichianum*, "a more diffuse and rather greener plant." There is considerable confusion about the varietal name and the plant that should bear it, and I sometimes wonder if the plant is in the trade. If it is, I have not been able to find it of late years. All the material which comes in under that label is decidedly red-leaved, far lovelier than that which I knew as variety *beyrichianum* years ago. In fact, this reddish form is the most attractive *S. nevi* I have seen, and both it and the type

should make good property for the neighborhood grower.

Winter Aconite.

A correspondent who has been increasing his offerings of small bulbs wonders if the winter aconite would be suitable for his purpose and, if so, how to handle it. The first half of the question is easily answered in the affirmative; the latter part will take a little more time.

The very nature of the winter aconite, *Eranthis hyemalis*, makes it a natural for the neighborhood grower, and that is true for a number of reasons. Gardeners have reached the point where they think the plant is difficult to establish, but, really, it is one of the easiest when handled correctly. Traveling through the ordinary channels of commerce, it is dug in June and stored from then until it reaches the gardener in October and November. By then it has be-



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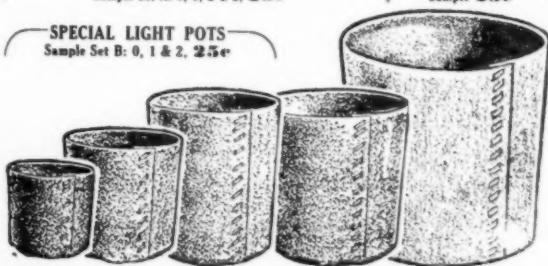
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70,000 12 to 18 ins.	1.80	15.00	12,000 2 to 3 ft.	4.50	40.00
200,000 6 to 12 ins.	1.20	10.00	25,000 18 to 24 ins.	2.90	25.00
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12,000 6 to 12 ins.	3.00	25.00	Mulberry, Russian.		
Caragana.			31,000 2 to 3 ft.	4.00	35.00
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12,000 12 to 18 ins.	3.20	28.00	59,000 6 to 12 ins.	1.20	10.00
20,000 6 to 12 ins.	2.10	18.00	Pin Oak.		
Cottonwood.			11,000 2 to 3 ft.	12.00	100.00
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60,000 2 to 3 ft.	1.40	12.00	1500 12 to 18 ins.	7.00	60.00
12,000 12 to 18 ins.	.80	7.00	600 8 to 12 ins.	5.00	40.00
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3500 6 to 12 ins.	2.50	20.00	1600 5 to 6 ft.	14.00	120.00
Elm, Chinese.			1000 4 to 5 ft.	10.00	90.00
20,000 2 to 3 ft.	3.50	30.00	500 3 to 4 ft.	8.50	75.00
160,000 18 to 24 ins.	2.40	20.00	100 2 to 3 ft.	5.60	50.00
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Honey Locust, Thornless.			Sand Cherry.		
2000 2 to 3 ft.	3.50	30.00	8000 2 to 3 ft.	10.00	90.00
5000 18 to 24 ins.	2.60	22.00	30,000 18 to 24 ins.	8.00	70.00
30,000 12 to 18 ins.	1.80	15.00	30,000 12 to 18 ins.	5.50	50.00
80,000 6 to 12 ins.	1.40	12.00	15,000 6 to 12 ins.	4.00	35.00
Locust, Black.			Rosa Multiflora.		
8000 3 to 4 ft.	4.50	40.00	Grown from western seeds.		
20,000 2 to 3 ft.	2.90	25.00	100,000 8 to 15 ins.		
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2 to 3 ft.	6.00	55.00	500.00
3 to 4 ft.	8.00	70.00	650.00
4 to 5 ft.	10.00	90.00	750.00

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come so desiccated that it lacks sufficient vitality to make another effort to grow, and a few more gardeners are converted to the belief that it is hard to grow. In the hands of the neighborhood grower, it could be dug at the correct time and immediately planted in his customer's garden. Then it would surely reward the gardener with one of spring's earliest displays. At first a yellow ball forces its way through the recently thawed soil; then a slight elongation of the stem becomes evident and eventually extends to three or four inches, at which time the yellow buttercup is wide open, and finally the palmately cut leaves appear.

Because cranthis must be used lavishly to make a showing in the garden, the plants should be sold in quantities. And that is as it should be, both from the buyer's and seller's standpoints. *E. hyemalis* is, in my opinion, the kind to grow. Its variety *cilicica* seemed less robust in trials here in northern Michigan; its color is slightly paler and cannot compare in garden effect with the parent. I do not know *E. sibirica*, which is highly spoken of in some quarters. The only other variety I have grown is the garden form known as *E. tubergeni*, which is said to be a hybrid between *E. hyemalis* and *E. cilicica*. It never set seeds here; so I suspect that it is a mule. It is really the showiest of the lot, taller, larger in all its parts, and the color seems a little brighter.

The Plains Mock Pennyroyal.

During a pleasant and inspiring conversation this summer, an Ohio grower asked several times that I mention the plains pennyroyal, *Hedeoma camporum*, sometime during the winter so other growers interested in fragrant herbs could look it up before spring. He has found it to be a good seller to herb collectors.

Being strictly American and rather unshowy, these mock pennyroyals have had little consideration from our gardeners. The only one (there are about sixteen species, according to the manuals) that appears in the literature to any extent is the common easterner, *H. pulegioides*, which inhabits dry soil in most states from the Atlantic coast to the Dakotas and southward. Being of annual duration, it is of little, if any, value as a landscape plant, although it could be made useful, because of its pronounced fragrance, for naturalizing in dry sunny places.

A plains plant, *H. camporum*, which I received from western

Kansas several years ago, deserves a better fate, because of its perennial nature, its ability to get along on next to nothing, a long blooming period (May to September) and a pleasing, penetrating fragrance. Like other mock pennyroyals it is not showy in the usual interpretation of the term; yet, its 8-inch stems, perhaps as many as forty or fifty of them from a single crown, carry a sufficient number of pinkish-lavender flowers to color their section of the garden. The present interest in herbs should make it a good item for some neighborhood nurseries. It may be grown from seeds or cuttings and is practically indestructible in our dry sandy soil.

Cunila.

The fragrance of the pennyroyal—at least I hope it left a lingering fragrance in its passing—brings to mind another pleasantly scented native, *Cunila origanoides*, or *C. mariana*, which might work in well in the neighborhood grower's schedule, especially if he has clients who are awake to the value of fragrance in the garden. Nor does its value cease in the world of fragrance, for it has definite merit in the late summer landscape, when many gardeners depend upon annuals for their blooming plants.

A member of the great family of labiates, it possesses the sweet odor of many of its kind and a friendly disposition. It grows naturally in dry soil in part shade to full sun, always better in the latter, according to experience here, from New York to Illinois and southward, indicating a rather wide range of usefulness in gardens. This does fit it, of course, for growing conditions in our eastern states. Its ease of culture in dry soil, which should be slightly acid, I am told, although it did well here in our ordinary garden soil, which we try to keep neutral: a long blooming period in summer, when it produces terminal clusters of pinkish-purple, 2-lipped, inch-long flowers, and an attractive period during the fruiting season mark it for more popularity than it has enjoyed. It grows easily from seeds and often blooms the first year from an early start.

Silene Elizabethae.

A Connecticut correspondent writes that he has bought *Silene elizabethae* three times, received three different plants and wonders if any of the 10 to 14-inch plants were the real *Elizabeth*. His experience coincides with mine exactly, except that I have bought it at least

[Continued on page 53.]

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Coming Events

MEETING CALENDAR.

January 3 to 6, Indiana Association of Nurserymen, Union Memorial building, Purdue University, West Lafayette.

January 4 to 6, A. A. N. Eastern Regional Meeting, Hotel Statler, New York.

January 5, New Jersey Association of Nurserymen, Hotel Statler, New York.

January 5, New York State Nurserymen's Association, Hotel Statler, New York.

January 9, Maryland Nurserymen's Association, Lord Baltimore hotel, Baltimore.

January 10, Missouri State Nurserymen's Association, Muehlebach hotel, Kansas City.

January 10 and 11, Oklahoma State Nurserymen's Association, Biltmore hotel, Oklahoma City.

January 11, Kansas Nurserymen's Association, Hotel Muehlebach, Kansas City, Mo.

January 11 and 12, Western Association of Nurserymen, Hotel Muehlebach, Kansas City, Mo.

January 12, Connecticut Nurserymen's Association, Waverly Inn, Cheshire.

January 13 and 14, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines.

January 15 to 17, Executive Committee, American Association of Nurserymen, Hotel La Salle, Chicago.

January 16, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 16, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago.

January 16, All-America Rose Selections, Inc., Hotel La Salle, Chicago.

January 16 to 18, Idaho Nurserymen's Association, Boise.

January 17 to 19, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 20, Western New York Nurserymen's Association, Hotel Seneca, Rochester.

January 23 and 24, Washington State Nurserymen's Association, Davenport hotel, Spokane.

January 23 to 25, Short Course for Nurserymen, Landscape Gardeners and Arborists, Neil House, Columbus, O.

January 25, New Jersey Association of Nurserymen, Hotel Hildebrecht, Trenton.

January 25 to 27, Indiana Arborists' Association, Purdue University, West Lafayette.

January 26 and 27, Ohio Nurserymen's Association, Neil House, Columbus.

January 29 to 31, Virginia Nurserymen's Association, Hotel John Marshall, Richmond.

February 1 to 3, Michigan Association of Nurserymen, Fort Shelby hotel, Detroit.

February 2, Oregon Association of Nurserymen, Heathman hotel, Portland.

February 2 and 3, Tennessee State Nurserymen's Association, Andrew Johnson hotel, Knoxville.

February 2 and 3, Pennsylvania Nurserymen's Association, Bellevue-Stratford hotel, Philadelphia.

February 7 to 9, New England Nurserymen's Association and Massachusetts Nurserymen's Association, Hotel Kenmore, Boston.

February 15, Rhode Island Nurserymen's Association, Newport.

February 15 to 19, Midwestern Chapter

of National Shade Tree Conference, Hotel La Salle, Chicago.

February 21 to 23, Pennsylvania Nurserymen's Conference, State College, Pa.

NATIONAL LANDSCAPE NURSERYMEN TO MEET.

At the annual midwinter meeting of the National Landscape Nurserymen's Association, to be held January 16 in parlor F of the Hotel La Salle, Chicago, members will be invited to participate in the program, telling of their experiences concerning the topics which will be discussed, according to the association's popular custom.

Louis Hillenmeyer, Jr., Hillenmeyer Nurseries, Lexington, Ky., is chairman of the program, which will open with a review of the association's work program to date, presented by President Vernon Marshall. Marshall Nurseries, Arlington, Neb. The question "Does Advertising Pay?" will be answered by Hal Wagner, Local Loan Corp., Chicago, considered to be an authority on advertising, and a discussion will follow on the promotional booklet for small

home planting which is sponsored by the association.

In the afternoon, a talk on "How to Increase Our Sales with Salesmen" will be given by William A. Natorp, W. A. Natorp Co., Cincinnati, O. Homer K. Dodge, Landscape Service Co., Framingham, Mass., chairman of the association's educational committee, will tell of the response of the nation's educational institutions to the training program for landscape nurserymen which is sponsored jointly by the N. L. N. A. and the American Association of Nurserymen. The program will be concluded by Laurence G. Holmes, White Elm Nursery Co., Hartland, Wis., whose talk will be entitled "Modern Plants for Modern Homes."

A meeting of the executive committee will be held January 15.

EASTERN REGIONAL REGISTRATION BY MAIL.

Registration for the 1950 convention of eastern nurserymen is being done by mail this year in order to expedite the convention program, which begins January 4 and runs through January 6. Members are offered a saving of \$1 if they register by mail instead of waiting to do it

WESTERN ASSOCIATION OF NURSERYMEN 1950 Convention

January 11 and 12, 1950

Hotel Muehlebach, Kansas City, Mo.

HEAR: Dick White, Edward Ronnaugh, Evert Asjes, Lawrence Holmes and other headline speakers.

SEE: Your friends from all over the country.

LEARN: The latest developments in the industry—who wants to buy your stock—and who has what you need.

ENJOY: The banquet with unusual entertainment.

~~~~~  
Oldest Sectional Nurserymen's Association in America!  
No Registration Fee.

Make reservations at once. Hotel rooms are still scarce.

C. C. Smith, Secretary,  
Charles City, Iowa

*We wish to take this opportunity  
to wish all our trade friends a*

MERRY, MERRY CHRISTMAS  
and a  
HEALTHY, HAPPY, PROSPEROUS NEW YEAR



## LEGHORN'S EVERGREEN NURSERIES

GEER STREET

CROMWELL, CONN.

at convention headquarters, Hotel Statler, New York, according to Mrs. Marie M. Enberg, convention secretary. Those registering by mail are requested to send by December 30 their names, as well as the names of the companies which they represent, with the \$10 registration fee, to Mrs. Marie M. Enberg, secretary-treasurer, Rosedale Nurseries, Eastview, N. Y. Registration at the convention will be \$11.

Business will begin Wednesday afternoon with a meeting of the officers and delegates of region I of the American Association of Nurserymen, open to all A. A. N. members. The social program will begin with a reception for nurserymen, their guests and the press in the evening.

Two open meetings will be held simultaneously Thursday morning, with President Jac Bulk, Bulk's Nurseries, Babylon, N. Y., welcoming members of the New York State Nurserymen's Association, and President Fred J. Noble, Lovett's Nursery, Little Silver, N. J., presiding at a meeting of the New Jersey Association of Nurserymen. Speakers at the latter meeting will include Wallace A. Mitcheltree, associate extension specialist in soils, Rutgers University.

After luncheon, the National



ORNAMENTALS  
ROSES

CAMELLIAS

AZALEAS

DECIDUOUS FRUITS  
CITRUS

New Trade List available on request. See classified ad on Container-grown Citrus.

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Dependable since 1882  
GLEN SAINT MARY, FLORIDA

## CHINESE CHESTNUT TREES and SEED NUTS

Pure *Castanea mollissima* nuts and seedling trees from the same orchard containing the parent trees of the new U.S.D.A. varieties Nanking, Meiling and Kuling. No better strains available. Trees from 12 inches to 5 feet. Prices on request.

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**ROSEBUSHES**

Licensed Grower,  
All-America  
Introductions.  
Refrigeration.

AVOID HEELYARD HAVOC.

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**NURSERY CO.**

TYLER, TEXAS

GET YOURS FIELD-FRESH AND FREEZE-FREE.

**PECAN TREES**

WALNUT, FIG

PERSIMMON

Wholesale Catalog.



## PLUMFIELD NURSERIES

BOX 7

L. A. Moffet, Mgr.

FREMONT, NEB.

### TERMS AND CONDITIONS OF SALE

**TERMS**—One per cent discount for cash if paid on or before 10th of month following date of invoice, and is due NET 30 days thereafter. Interest charged on past due accounts.

These terms are offered to those with established credit; otherwise cash, security, or satisfactory references. C.O.D. orders must be accompanied by one-fourth cash.

**PRICES** in this list are based upon present market conditions and are subject to change without notice. These are Wholesale Prices and apply upon the following quantities:

### SURPLUS LIST

|                                                           | Per<br>10 | Per<br>100 | Per<br>1000 |
|-----------------------------------------------------------|-----------|------------|-------------|
| 2000 Thuja Orientalis, R.P., 12 to 18 ins.                | \$ 1.00   | \$ 8.50    | \$ 75.00    |
| 5000 Thuja Orientalis, R.P., 9 to 12 ins.                 | .80       | 7.00       | 60.00       |
| 5000 Thuja Orientalis, R.P., 6 to 9 ins.                  | .70       | 6.00       | 50.00       |
| 500 Thuja, Pyramidal, TTT, 9 to 12 ins.                   | 4.50      | 40.00      | 350.00      |
| 500 Juniper, Andorra, TTT, 12 to 18 ins.                  | 6.00      | 55.00      | 500.00      |
| 70 Juniper, Tamarix, TTT, 12 to 18 ins.                   | 7.00      | 65.00      | 600.00      |
| 750 Juniper, Hetz, TTT, 12 to 18 ins.                     | 6.00      | 55.00      | 500.00      |
| 250 Juniper, Hetz, TTT, 9 to 12 ins.                      | 4.70      | 45.00      | 420.00      |
| 25 Juniper, Pfitzer Golden, TTT, 12 to 18 ins.            | 6.00      | 55.00      | 500.00      |
| 75 Juniper, Pfitzer Golden, TTT, 9 to 12 ins.             | 4.70      | 45.00      | 420.00      |
| 1000 Juniper, Pfitzer, TTT, 12 to 15 ins.                 | 6.00      | 55.00      | 500.00      |
| 1000 Juniper, Pfitzer, TTT, 9 to 12 ins.                  | 4.70      | 45.00      | 420.00      |
| 1000 Juniper, Savin, TTT, 15 to 18 ins.                   | 8.50      | 75.00      | 650.00      |
| 6000 Juniper, Savin, TTT, 12 to 15 ins.                   | 5.50      | 50.00      | 450.00      |
| 4000 Juniper, Savin, TTT, 9 to 12 ins.                    | 4.50      | 40.00      | 350.00      |
| 1000 Juniper, Scopulorum (Silver Jun.), TTT, 2 to 3 ft.   | 10.00     | 90.00      | 800.00      |
| 2000 Juniperus Virginiana (Neb. type), 2 to 3 ft.         | 5.50      | 50.00      | 450.00      |
| 2500 Juniperus Virginiana (Neb. type), TTT, 18 to 24 ins. | 4.50      | 40.00      | 350.00      |
| 3000 Juniperus Virginiana (Neb. type), TTT, 12 to 18 ins. | 3.00      | 25.00      | 200.00      |
| 4000 Juniperus Virginiana (Neb. type), TTT, 9 to 12 ins.  | 2.50      | 20.00      | 150.00      |
| 1000 Pine, Ponderosa, R.P., 18 to 24 ins.                 | 2.50      | 23.00      | 200.00      |
| 1500 Pine, Ponderosa, R.P., 12 to 18 ins.                 | 2.00      | 18.00      | 150.00      |
| 18,000 Pine, Ponderosa, R.P., 9 to 12 ins.                | 1.80      | 15.00      | 120.00      |
| 10,000 Pine, Ponderosa, R.P., 6 to 9 ins.                 | 1.50      | 12.00      | 90.00       |
| 3000 Pine, Banksiana, R.P., 18 to 24 ins.                 | 1.80      | 15.00      | 120.00      |
| 2500 Pine, Banksiana, R.P., 12 to 18 ins.                 | 1.50      | 12.00      | 100.00      |
| 2000 Pine, Banksiana, R.P., 9 to 12 ins.                  | 1.20      | 10.00      | 80.00       |
| 5000 Pine, Sylvestris, R.P., 12 to 18 ins.                | 2.20      | 20.00      | 180.00      |
| 11,000 Pine, Sylvestris, R.P., 9 to 12 ins.               | 2.00      | 18.00      | 150.00      |
| 4000 Pine, Sylvestris, R.P., 6 to 9 ins.                  | 1.50      | 12.00      | 100.00      |

### FIELD-GROWN GRAFTS

|                                                               | Per 10  | Per 100  |
|---------------------------------------------------------------|---------|----------|
| 1000 Juniper, Pathfinder, 18 to 24 ins., TTT, 2-yr., in field | \$13.00 | \$120.00 |
| 1000 Juniper, Pathfinder, 12 to 18 ins., TTT, 1-yr., in field | 9.00    | 85.00    |

## Merry Christmas

From the Partners of  
**FAIRVIEW EVERGREEN NURSERIES**  
FAIRVIEW, PA.

Charles W. Hetz

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Splendid Stock

Write for Special Quotations

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MILFORD DELAWARE

## LINING-OUT STOCK

Spring, 1950

Hardy Azalea Hindodegiri, Hinomayo, Nomo, Snow, Azalea Kacmferi Hybrids: Carmen, Cleopatra, Fedora, Atlanta, Mme. Butterfly, etc.

1-yr., 3 to 5 ins., 18c ea.

4 to 6 ins., 25c ea.

2-yr., 4 to 6 ins., 35c ea.

6 to 8 ins., 50c ea.

Cornus florida rubra, 1-yr. grafts, 18 to 24 ins., 75c ea. Acer atropurpureum, 1-yr. grafts, 9 to 12 ins., 75c ea. Lilacs, 1-yr. grafts, many varieties, 20c ea. Ask for complete list of other varieties.

### DEERFIELD NURSERIES

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## POTTED LINERS

### GRAFTS

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## EVERGREENS

Seedlings and Transplants

Spring, 1950

Write for price list.

**SUNCREST EVERGREEN NURSERIES**  
JOHNSTOWN, PA.

Landscape Nurserymen's Association will hear Dr. Joseph E. Howland, garden editor of House Beautiful, speak on "Climate Control Through Planting." This meeting will be presided over by Homer K. Dodge, Landscape Service Co., Framingham, Mass., executive committee member for region I of the N. L. N. A. A panel discussion of "How to Sell a Big Landscape Job" will follow, moderated by Mr. Dodge. Howard C. Taylor, Rosedale Nurseries, Eastview, N. Y.; William P. Howe, Howe Nurseries, Pennington, N. J., and two other landscape nurserymen will take part in the panel. Mr. Dodge will then report on the association's activities, and Harold G. Seyler, Farr Nursery Co., Weiser Park, Pa., will talk on "The Quest for Twenty Per Cent." In response to many requests for such a period, an informal open forum and discussion of plant materials and unusual uses of them will be held in the evening after the dinner hour.

A general meeting, including election of officers, of members from region I of the American Association of Nurserymen will be held Friday morning, when Peter J. Cascio, Peter Cascio Nursery, West Hartford, Conn., executive committeeman for region I, will report on regional activities, and Howard P. Quadland, public relations counsel for the association, will be introduced to speak on sales promotion.

The morning's program will be concluded with a panel discussion of office procedures which will be conducted by Willard Bond, Bay State Nurseries, Inc., North Abington, Mass. Participating members will be Miss Vivien Taylor, Wood-Howell Nurseries, Bristol, Va.; Miss Lois Neumeyer, Bay State Nurseries, Inc.; Miss Hilda Possinger, LaBars' Rhododendron Nursery, Stroudsburg, Pa., and Mrs. Marie Enberg, Rosedale Nurseries, Eastview, N. Y.

Leonard E. Read, president of the Foundation for Economic Education, Irvington-on-Hudson, N. Y., will give a talk entitled "Table Stakes" at the noonday luncheon. Mr. Read has been manager of the Los Angeles chamber of commerce, and his work there won him executive vice-presidency of the National Industrial Conference Board. He began building the voluntary Foundation for Economic Education, Inc., in 1946, in an effort to disseminate to the public the principles of economic freedom in America.

A. A. N. President James I. E. Ilgenfritz, Ilgenfritz Nurseries, Inc., Monroe, Mich., will report on the



## GRAFTED STOCK For Spring, 1950, Delivery

|                                                         | Per 10 | Per 100 |                                                       | Per 10 | Per 100 |
|---------------------------------------------------------|--------|---------|-------------------------------------------------------|--------|---------|
| <i>Acer palmatum atropurpureum</i> .....                | \$7.00 | \$65.00 | <i>Magnolia soulangeana nigra</i> .....               | \$6.50 | \$60.00 |
| <i>Acer palmatum dissectum atropurpureum</i> .....      | 7.00   | 65.00   | <i>Magnolia stellata</i> .....                        | 6.50   | 60.00   |
| <i>Cornus florida alba plena</i> .....                  | 5.00   | 45.00   | <i>Magnolia stellata rubra</i> .....                  | 7.00   | 65.00   |
| <i>Cornus florida rubra</i> .....                       | 5.00   | 45.00   | <i>Magnolia stellata, Water Lily</i> .....            | 6.50   | 60.00   |
| <i>Cornus florida rubra Prosser</i> .....               | 7.00   | 65.00   | <i>Magnolia rustica rubra</i> .....                   | 7.00   | 65.00   |
| <i>Fagus sylvatica riversi</i> .....                    | 7.00   | 65.00   | <i>Thuja occidentalis douglasii (spiralis)</i> .....  | 4.50   | 40.00   |
| <i>Ilex opaca femina</i> .....                          | 5.00   | 45.00   | <i>Thuja occidentalis elegantissima</i> .....         | 4.50   | 40.00   |
| <i>Juniperus chinensis columnaris glauca</i> .....      | 5.00   | 45.00   | <i>Thuja occidentalis lutea, Mary Corey</i> .....     | 4.50   | 40.00   |
| <i>Juniperus chinensis columnaris viridis</i> .....     | 5.00   | 45.00   | <i>Thuja occidentalis lutea, George Peabody</i> ..... | 4.50   | 40.00   |
| <i>Juniperus chinensis keteleeri</i> .....              | 5.00   | 45.00   | <i>Thuja occidentalis nigra</i> .....                 | 4.50   | 40.00   |
| <i>Juniperus chinensis neaboriensis</i> .....           | 5.00   | 45.00   | <i>Thuja occidentalis pyramidalis</i> .....           | 4.50   | 40.00   |
| <i>Juniperus chinensis sargentii</i> .....              | 5.00   | 45.00   | <i>Thuja occidentalis rosenthalii</i> .....           | 4.50   | 40.00   |
| <i>Juniperus chinensis sargentii glauca</i> .....       | 5.00   | 45.00   | <i>Thuja occidentalis wareana (sibirica)</i> .....    | 4.50   | 40.00   |
| <i>Juniperus chinensis meyeri</i> .....                 | 5.00   | 45.00   | <i>Thuja orientalis aurea nana</i> .....              | 4.00   | 35.00   |
| <i>Juniperus virginiana burki</i> .....                 | 5.00   | 45.00   | <i>Thuja orientalis conspicua</i> .....               | 4.00   | 35.00   |
| <i>Juniperus virginiana canaerti</i> .....              | 5.00   | 45.00   | <i>Thuja orientalis elegantissima</i> .....           | 4.00   | 35.00   |
| <i>Juniperus virginiana elegantissima</i> .....         | 5.00   | 45.00   | <i>Tsuga canadensis pendula</i> .....                 | 5.50   | 50.00   |
| <i>Juniperus virginiana glauca</i> .....                | 5.00   | 45.00   | <i>Tsuga canadensis pendula, 1-yr. grafts</i> .....   | 7.00   | 65.00   |
| <i>Juniperus virginiana globosa</i> .....               | 5.00   | 45.00   |                                                       |        |         |
| <i>Juniperus virginiana kosteriana</i> .....            | 5.00   | 45.00   |                                                       |        |         |
| <i>Juniperus virginiana schottii</i> .....              | 5.00   | 45.00   |                                                       |        |         |
| <i>Juniperus virginiana pyramidaformis hillii</i> ..... | 5.00   | 45.00   |                                                       |        |         |
| <i>Juniperus sabina Von Ehron</i> .....                 | 5.00   | 45.00   |                                                       |        |         |
| <i>Magnolia lennei</i> .....                            | 7.00   | 65.00   |                                                       |        |         |
| <i>Magnolia soulangeana</i> .....                       | 6.50   | 60.00   |                                                       |        |         |

All the above shipped from 2 1/4-inch rose pots.

### Special for Fall Shipment

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <i>Magnolia soulangeana, 1-yr. grafts</i> .....       | \$75.00 per 100 |
| <i>Magnolia soulangeana nigra, 1-yr. grafts</i> ..... | \$75.00 per 100 |

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

## HESS' NURSERIES

## MOUNTAIN VIEW, N. J.

affairs of the American Association of Nurserymen after luncheon, and Executive Secretary Richard P. White, Washington, D. C., will speak on "The A. A. N. as Seen from the Washington Office." Dr. Luther Baumgartner, research director of the B. F. Goodrich Chemical Co., will give a talk entitled "Throw Out the Horse Manure, Fellows!" The meeting will be concluded with a talk on "Photography as Related to Sales Problems in the Nursery Field," presented by Mr. Salmons, Eastman Kodak Co., Rochester, N. Y.

### INDIANA PROGRAM.

The nature of the annual winter meeting of the Indiana Association of Nurserymen is approaching that of a short course, with members of the Purdue University faculty contributing a large part of the program. A full schedule has been planned for the 1950 meeting, January 3 to 6 at Purdue University, Lafayette.

President John C. Bunch, J. C. Bunch & Son, Terre Haute, will preside over the first day's sessions, which will open in the morning with a talk on "The Nursery Industry and the Department of Horticulture," delivered by Dr. Laurenz Greene, head of the department of horticulture,

Our Best Wishes

for a

Merry Christmas

and a

Happy, Prosperous New Year

**CARL SHAMBURGER NURSERY**

TYLER, TEXAS



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List and prices  
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### "SPECIALS" FROM OUR NEW LIST

### Magnolia Soulangeana

1-yr., own-root, bed-grown liners.

|                              | Per 100  |
|------------------------------|----------|
| 12 to 18 ins., own-root..... | \$ 75.00 |
| 18 ins. and up, own-root.... | 100.00   |

### KOSTER NURSERY

BRIDGETON, N. J.

*Again May We Extend Our*

## HEARTIEST SEASON'S GREETINGS

and give thanks to all of you for your valued patronage of the past.

**SPRING, 1950, offerings include** Each per 1000

|                                                    |               |
|----------------------------------------------------|---------------|
| <i>Taxus cuspidata andersoni</i> , 2-yr. T. ....   | <b>\$0.25</b> |
| <i>Taxus cuspidata nana erecta</i> , 2-yr. T. .... | <b>.25</b>    |
| <i>Taxus columnaris</i> , 2-yr. T. ....            | <b>.25</b>    |
| <i>Taxus intermedia</i> , spreading, 2-yr. T. .... | <b>.25</b>    |
| <i>Taxus media browni</i> , 2-yr. T. ....          | <b>.25</b>    |
| <i>Taxus media halloriana</i> , 2-yr. T. ....      | <b>.25</b>    |
| <i>Taxus media hatfieldi</i> , 2-yr. T. ....       | <b>.25</b>    |
| <i>Taxus media hicksi</i> , 2-yr. T. ....          | <b>.20</b>    |

All fine material. Phone, write or visit

**A. N. PIERSON, Inc.**

**CROMWELL, CONN.**

**E. D. Robinson, Sales Representative**

## Cordial Greetings!

OUR BEST WISHES for a  
**MERRY CHRISTMAS and HAPPY NEW YEAR**  
are extended to all in this great nursery industry.

### Virginia Seaside Roses

Our rose list is most complete for Spring, 1950, and includes many of the better patented varieties. See Jim Ilgenfritz or Charley Henion at the Illinois meeting at Chicago before ordering.

**ILGENFRITZ NURSERIES, Inc.**

"THE MONROE NURSERY"

MONROE, MICH.

### SPECIAL OFFERINGS

*Viburnum dentatum*, understocks.

*Viburnum opulus*, 2-yr. transplants, 6 to 12 ins.

*Myrica cerifera*, 2-yr. transplants, 3 to 6 ins.

Write for samples and prices.

**THE RHODE ISLAND NURSERIES**

NEWPORT, R. I.

### MAXWELL, BOWDEN & RICE

Incorporated

**Wholesale Nurseries**

GENEVA, NEW YORK

Phone 2974

### TAXUS MEDIA HALLORAN

The past winter proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

**VERKADE'S NURSERIES**

NEW LONDON, CONN.

Purdue University. A discussion of "The Elm Situation" will follow, given by Dr. C. L. Porter, professor of botany at the university.

After luncheon, "The Parathion Situation" will be discussed by J. J. Davis, head of the department of entomology, after which members will go to the spray laboratory, where Dr. G. V. Falkenberg, J. A. McClinck and Glen Sowders, of the department of horticulture, will discuss spray machinery and spraying. "Soil Structure" will be the topic of a talk by Dr. J. B. Peterson, head of the department of agronomy.

At the dinner hour, a film entitled "Springtime in Holland" will be shown, and a panel discussion will close the day's program. Prof. H. W. Gilbert will lead the discussion on tree lists; Prof. C. E. Hoxsie, rose diseases, and Prof. R. B. Hull, plant lists.

Past President I. J. Mathews, Mathews Nursery & Seed Co., Gary, will preside over the second day's program, which will begin with a discussion of "The Ups and Downs of the Landscape Business," by Harold Hunziker, M. J. Hunziker & Sons, Niles, Mich. John Siebenthaler, Siebenthaler Co., Dayton, O., executive committeeman for region III of the American Association of Nurserymen, will discuss A. A. N. activities.

Luncheon will be followed by a talk on "The Direction of the Economy," by Dr. Earl L. Butz, head of the department of agricultural economics. Other talks in the afternoon will include "Cultural Methods of Handling Roses on the Home Grounds," by Dr. L. C. Chadwick, department of horticulture and forestry, Ohio State University, and "The Testing Program of the American Rose Society," by W. L. Ayers, dean of the school of science and also president of the American Rose Society. A panel discussion on "What Nursery Schools Fail to Teach" will be led by Devol Ernst, Ernst Nurseries, Muncie, and Richard Pottenger, Pottenger Nursery, Indianapolis. A round-table discussion will be held in the evening, with Prof. C. E. Hoxsie presiding.

Devol Ernst, a past president, will preside at the next day's sessions: George Siebenthaler, Siebenthaler Co., Dayton, O., will talk on "Present-day Trends in Landscape Planting," and A. H. Burger, Elgin, Ill., will discuss "The Nurseryman's Garden Shop; What to Sell and How Best to Sell It."

A panel on costs will begin the afternoon session. Merle Esterline, Eagle Creek Nursery, New Augusta, will speak on "Costs Incident to the

# KRIEGER'S WHOLESALE NURSERY

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### Telephone 22

# SMALL FRUITS

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| GRAPES                                         |         |          |                  |
|------------------------------------------------|---------|----------|------------------|
|                                                | Per 100 | Per 1000 |                  |
| Concord, 2-1                                   | \$10.00 | \$ 80.00 |                  |
| Concord, 1-1                                   | 8.00    | 60.00    |                  |
| Niagara, 2-1                                   | 11.00   | 90.00    |                  |
| Niagara, 1-1                                   | 9.00    | 70.00    |                  |
| Catawba, 2-1                                   | 11.00   | 90.00    |                  |
| Catawba, 1-1                                   | 9.00    | 70.00    |                  |
| Fredonia, 2-1                                  | 11.00   | 90.00    |                  |
| Fredonia, 1-1                                  | 9.00    | 70.00    |                  |
| Delaware, 2-1                                  | 14.00   | 120.00   |                  |
| Delaware, 1-1                                  | 11.00   | 90.00    |                  |
| Van Buren, 2-1                                 | 16.00   |          |                  |
| Van Buren, 1-1                                 | 14.00   |          |                  |
| Sheridan, 1-1                                  | 14.00   |          |                  |
| BLACKBERRIES                                   |         |          |                  |
| Eldorado, transplants                          | 6.50    | 55.00    |                  |
| Eldorado, No. 1, r.c.                          | 5.00    | 40.00    |                  |
| Alfred, transplants                            | 6.50    | 55.00    |                  |
| Alfred, No. 1, r.c.                            | 5.00    | 40.00    |                  |
| Early Harvest, No. 1, r.c.                     | 6.50    | 55.00    |                  |
| BOYSENBERRIES and DEWBERRIES                   |         |          |                  |
| Boysenberry (Common), No. 1 tips               | 5.00    | 40.00    |                  |
| Boysenberry (Thornless), No. 1 tips            | 5.50    | 45.00    |                  |
| Lucretia Dewberry, No. 1 tips                  | 5.50    | 40.00    |                  |
| CURRANTS                                       |         |          |                  |
| Wildier, 3-yr. heavy                           | 15.00   | 130.00   |                  |
| Wildier, 2-yr. No. 1                           | 12.00   | 100.00   |                  |
| Wildier, 1-yr. No. 1                           | 7.00    | 60.00    |                  |
| Red Lake, 3-yr. No. 1                          | 16.00   |          |                  |
| Red Lake, 1-yr. No. 1                          | 12.00   |          |                  |
| GOOSEBERRIES                                   |         |          |                  |
| Downing, 2-yr. No. 1                           | 25.00   |          |                  |
| Houghton, 2-yr. No. 1                          | 25.00   |          |                  |
| Champion, 2-yr. No. 1                          | 25.00   |          |                  |
| BLUEBERRIES                                    |         |          |                  |
| Prices of Rancocas, Rubel, Jersey              |         |          |                  |
| 2-yr., 9 to 12 ins., bearing age...            | \$0.40  | \$3.50   | \$32.50 \$300.00 |
| 3-yr., 12 to 18 ins., bearing age...           | .55     | 5.00     | 47.50 450.00     |
| 4-yr., 18 to 24 ins., bearing age...           | .75     | 7.00     | 67.50 650.00     |
| Write for Special Quotations on Quantity Lots. |         |          |                  |
| RED RASPBERRIES                                |         |          |                  |
| Latham, transplants                            | \$ 7.50 | \$ 62.50 |                  |
| Latham, 1-yr. No. 1                            | 6.00    | 47.50    |                  |
| Chief, transplants                             | 7.00    | 60.00    |                  |
| Chief, 1-yr. No. 1                             | 5.50    | 45.00    |                  |
| Sunrise, transplants                           | 7.00    | 60.00    |                  |
| Sunrise, 1-yr. No. 1                           | 5.50    | 45.00    |                  |
| Indian Summer, transplants                     | 8.00    | 70.00    |                  |
| Indian Summer, 1-yr. No. 1                     | 6.50    | 55.00    |                  |
| St. Regis, transplants                         | 7.00    | 60.00    |                  |
| St. Regis, 1-yr. No. 1                         | 5.50    | 45.00    |                  |
| BLACK RASPBERRIES                              |         |          |                  |
| Cumberland, trans., No. 1                      | 8.00    | 70.00    |                  |
| Cumberland, trans., No. 2                      | 6.50    | 55.00    |                  |
| Cumberland, tips, No. 1                        | 4.50    | 35.00    |                  |
| Logan, trans., No. 1                           | 8.00    | 70.00    |                  |
| Logan, trans., No. 2                           | 6.50    | 55.00    |                  |
| Logan, tips, No. 1                             | 4.50    | 35.00    |                  |
| Morrison, trans., No. 1                        | 8.00    | 80.00    |                  |
| Morrison, trans., No. 2                        | 7.50    | 65.00    |                  |
| Morrison, tips, No. 1                          | 5.00    | 40.00    |                  |
| PURPLE RASPBERRIES                             |         |          |                  |
| Sodus, No. 1, tips                             | 5.50    | 45.00    |                  |
| ASPARAGUS                                      |         |          |                  |
| Paradise and Washington                        |         |          |                  |
| 3-yr. heavy                                    | 4.00    | 30.00    |                  |
| 2-yr. No. 1                                    | 2.50    | 18.00    |                  |
| 1-yr. No. 1                                    | 1.70    | 12.00    |                  |
| 1-yr., in 10,000 lots                          |         | 10.00    |                  |
| VICTORIA RHUBARB                               |         |          |                  |
| Whole Roots                                    |         |          |                  |
| 1 1/4-in. and up                               | 8.00    | 75.00    |                  |
| 1 to 1 1/4-in.                                 | 5.50    | 50.00    |                  |
| 3/4 to 1-in.                                   | 4.00    | 35.00    |                  |
| 1/2 to 3/4-in.                                 | 3.00    | 25.00    |                  |
| RED RHUBARB                                    |         |          |                  |
| Canada Red, No. 1 divisions                    | 40.00   | 350.00   |                  |
| McDonald, No. 1 divisions                      | 30.00   | 250.00   |                  |
| HORSE-RADISH                                   |         |          |                  |
| Cuttings, 4 to 5 ins.                          | 2.00    | 15.00    |                  |
| Whole Roots                                    | 4.50    | 35.00    |                  |

Production of Nursery Stock"; John Siebenthaler, "Things to Consider in the Operation of a Retail Sales-yard," and Ray Price, Price Nurseries, Plymouth, "Computing Costs of Landscape Operations." The afternoon's program will be concluded by a plant identification tour of the campus with Prof. Roy B. Hull, of the department of horticulture, and a talk on "The Fundamentals of Bookkeeping and Business Management," by Dr. G. B. Wood, department of agricultural economics.

A highlight of the meeting will be the evening banquet, at which Professor Hull will be toastmaster, and Dr. Louis Sears, department of history, will talk on "Where We Stand."

The program on the closing day will be presided over by another past president, Floyd Bass, Bass Peony Farm, New Augusta. J. J. Pinney, Willis Nursery Co., Ottawa, Kan., will take "So You're Going to Start a Nursery" for his topic to open the program, and Raymond W. Klackle, department of horticulture, will tell "The Story of the Dwarfs." "Trends in Education Affecting Nurserymen," by F. L. O'Rourke, Michigan State College, will conclude the morning session.

A progress report on the Purdue

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Shade trees  
Will satisfy the  
Most discriminating

F & F NURSERIES  
SPRINGFIELD, N. J.

### We Offer—

EVERGREENS—In a large assortment of PYRAMIDAL and GLOBE ARBORVITAE, PFTZER JUNIPER and YEWs in grades at attractive prices. SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY and SHADE TREES.

Mail want list for prices.

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Westminster, Md.

### Trees, Evergreens, Shrubs Fruit Trees

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Telephone 2689 GENEVA, N. Y.

### FOR 51 YEARS

Our business has been  
growing

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Azaleas  
Perennials, Roses  
All Nursery Items

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E. RUTHERFORD, N. J.

### TAXUS BREVIFOLIA

Finished stock. Come and see it.  
In lots of 25 to 100. For cash.

Each  
15 to 18 ins., B&B \$3.50  
18 to 24 ins., B&B 4.50

No shipping. Send your truck.

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MONROE, N. Y.

Route 17 Orange County

See our ad on Lining-out Stock on  
page 20 of the December 1 issue.

PALLACK BROS. NURSERIES, Inc.  
Wholesale growers of nursery stock.  
Route 19, 31 miles north of Pittsburgh, Pa.  
P. O. Harmony, Pa.



## NEW DARK VELVETY RED

No. 112

and other fragrant

## SUB-ZERO HYBRID TEAS

Large and beautiful as any.  
Easy to grow and long to live.  
Save replacement expense.  
Also Yellow and Orange Climbers.

Write for trade prices to

**BROWNELL ROSES**  
LITTLE COMPTON, R. I.

## ACER PLATANOIDES • NORWAY MAPLES

|                               | Per 100 |
|-------------------------------|---------|
| 6 to 8 ft., ¾ to 1-in. cal.   | \$60.00 |
| 8 to 10 ft., 1 to 1½-in. cal. | 75.00   |
| Specimen trees                | 125.00  |
| 9 to 11 ft., 1½ to 2-in. cal. | 200.00  |
| Specimen trees                | 250.00  |
| 10 to 12 ft., 2 to 3-in. cal. | 300.00  |
| Specimen trees                | 400.00  |
| 11 to 13 ft., 3 to 4-in. cal. | 500.00  |
| Specimen trees                | 600.00  |

All these trees are well branched with fine fibrous roots and have been twice transplanted.

Additional charge of 15 per cent will be added for balling. No charge for loading trucks here at the nursery.

When C.O.D. shipment is desired, a cash deposit of 25 per cent must accompany order.

Orders for less than 100 of a size will be invoiced at an ADVANCE of 25 per cent OVER THE HUNDRED RATE.

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State and Sprout Rds.  
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## ORNAMENTAL EVERGREENS

## Trees & Shrubs

### BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

## PIERIS JAPONICA

As far as we know, no nursery has ever had too much *Pieris japonica*. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 15-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable sizes. Can be used in any kind of a planting.

2 to 4-in. T. 10¢ ea.; 4 to 7-in. T. 15¢ ea.  
Send for list of other choice plants.

**ALANWOLD NURSERY**  
NESHAMINY, Bucks Co., PA.

University department of horticulture, by Kent Ellis, and a business meeting will form the afternoon's agenda.

A special ladies' program has been arranged for January 5, beginning in the morning with a tour of the Cary Hall kitchens in the men's residence at Purdue University, with Mrs. H. W. Gilbert as hostess. After luncheon, Mrs. Kent Ellis will escort a tour through the National Homes factory, Lafayette.

### IDAHO SETS DATES.

A combined business and landscape school meeting will be held at Boise, by the Idaho Nurserymen's Association, January 16 to 18, according to Secretary Richard Nadeau.

### INDIANA ARBORISTS.

The Indiana Arborists' Association will hold its annual conference January 25 to 27 at Purdue University, West Lafayette, Ind.

### OREGON DATE.

The Oregon Association of Nurserymen will hold its one-day mid-winter meeting in the Georgian room, Heathman hotel, Portland, February 2, according to R. A. Walker, secretary.

### TENNESSEE DATES.

The Andrew Johnson hotel, Knoxville, Tenn., has been chosen as headquarters for the annual meeting of the Tennessee State Nurserymen's Association, February 2 and 3, according to Secretary John F. Varnell.

### COVER ILLUSTRATION.

### *Picea Glauca Densata.*

The Black Hills spruce has long been considered one of the best spruces, not only because of its hardiness, but also because of its compact habit and slow growth. It has been widely grown in nurseries from seeds obtained in the Black Hills of South Dakota. It stands the severe climate of the north central states, making a dense, compact, bushy habit. This form appears in young trees and persists in older specimens, which may attain twenty-five to forty feet in height and a spread of ten or twelve feet in the branches. The lower branches are retained even in old specimens.

The foliage of nursery-grown trees is usually bluish-green, but it may vary from green to blue. The cones

## NORTHERN - GROWN LINING-OUT STOCK

|                             | Per 100 | Per 1000 |
|-----------------------------|---------|----------|
| <i>Betula papyrifera</i>    |         |          |
| 1 to 2 ft.                  | \$6.00  | \$50.00  |
| 2 to 3 ft.                  | 8.00    | 70.00    |
| <i>Clethra alnifolia</i>    |         |          |
| 6 to 18 ins.                | 5.00    | 45.00    |
| <i>Ilex verticillata</i>    |         |          |
| 1 to 2 ft.                  | 5.00    | 40.00    |
| <i>Syringa vulgaris</i>     |         |          |
| 1 to 2 ft.                  | 6.00    | 50.00    |
| <i>Viburnum cassinoides</i> |         |          |
| 1 to 2 ft.                  | 6.00    | 50.00    |
| <i>Viburnum lentago</i>     |         |          |
| 1 to 2 ft.                  | 6.00    | 50.00    |

### EVERGREENS

|                           |      |       |
|---------------------------|------|-------|
| <i>Thuja occidentalis</i> |      |       |
| 6 to 12 ins.              | 5.00 | 40.00 |
| <i>Tsuga canadensis</i>   |      |       |
| 4 to 8 ins.               | 4.00 | 25.00 |
| 8 to 12 ins.              | 5.00 | 40.00 |

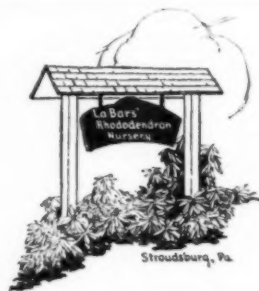
The above stock is first-quality collected lining-out stock. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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Rhododendron — Kalmia  
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CURTIS NURSERIES

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## LINING-OUT STOCK

If you have not received a copy of our Fall, 1949, price list and are interested, send for same.

**THOMAS B. MEEHAN CO., Inc.**  
Dresher, Pa.



# COLOR ADVERTISING

## *Your Opportunity for an Outstanding Advertisement*

In the A. A. N. Convention Number, published in July, annually appear a limited number of page insert advertisements in full colors. Here is your opportunity to use the most effective type of advertisement in the outstanding medium for selling to the nursery trade.

The 1949 Special Number surpassed all previous issues for size, volume of advertising and number of color pages. 1950 will be a special year for nurserymen, as the A. A. N. celebrates its diamond jubilee, and our 1950 Special Number, published at the time of this celebration, is expected to break all records.

Because the page advertisements in full color are printed together at one run for our Special Number, the price per page to advertisers is a fraction of the cost for single full-color inserts at other times. To effect this notable saving, early reservations for space are necessary. In the past some advertisers have been disappointed because they sent in their orders for color pages too late. So reserve your space now, before the March 10 deadline. For full particulars, write

## AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.

are cylindrical, from one and one-half to two inches long, with scales entire. The Black Hills spruce, now botanically designated as *Picea glauca densata*, is considered a variety of the white spruce, which was formerly known as *Picea canadensis*, and hence is sometimes listed as *P. canadensis albertiana*. The name *P. albertiana*, however, is given to the Alberta spruce, of the Canadian Rockies, which is now considered a different species from *P. glauca*, differing in the shape and color of the cones and in other details.

### HENRY FIELD ROSE.

In honor of the late Henry Field, the firm which he founded, the Henry Field Seed & Nursery Co., Shenandoah, Ia., is introducing a new rose variety in his name. Technically a new strain of the Brownell sub-zero hybrid teas, the Henry Field should tolerate temperatures as low as 25 degrees below zero without killing.

The scarlet-crimson double blooms of this rose are borne on long stems, with bright, glossy, green leaves which are highly resistant to leaf spot. After two years of testing, the plant has proved to be a vigorous free bloomer, producing more blooms than the ordinary hybrid teas.

## SCARFF'S NURSERY



Extends Best Wishes  
for a

Merry Christmas Season

and a

Happy, Prosperous New Year

To All of our Nursery Friends  
Throughout the Country.

W. N. SCARFF'S SONS, New Carlisle, Ohio



### ROSE BUSHES

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Ornamental Stock  
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**PRINCETON NURSERIES**  
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### SHEPARD NURSERIES

Growers and Distributors of  
**ORNAMENTAL NURSERY STOCK**  
Truckloads only, no boxing.  
60 acres growing. Skaneateles, N. Y.

# This Business of Ours

*Reflections on the Progress and Problems of Nurserymen*

By E. Sam Hemming

## SHEDDING OF EVERGREEN LEAVES.

A customer asked me this fall what was the matter with her Himalayan pine, and I told her it was simply shedding its old needles. Then I explained that evergreens lose their leaves, or needles, just as deciduous trees do, sometimes obviously and sometimes imperceptibly. I also told her that some evergreens lose their 2-year-old leaves, while other plants keep their leaves three or four years. We walked over to a near-by Nordmann fir, and, upon counting the internodes between the annual twig growths, we discovered the tree still had some 7-year-old needles. This is my favorite evergreen, and its persistence in holding its needles helps give it its dense foliage.

Later, walking around the nursery, I noticed that the pines, in general, lose their second or third-year needles in self-defense, when it is once in the fall. There was a heavy accumulation of needles under these trees. On the other hand, the choice firs, spruces, yews and cedars held their needles three to seven years, and there was no evident accumulation of dead needles beneath them. Under an old yew that had not been disturbed for at least fifteen years, I could barely find a shed needle, either green or brown.

A coniferous evergreen will, of course, sometimes shed its older needles in self-defense, when it is in poor vigor or suffering from drought. This is one of the first indications a tree gives when it needs attention.

We have a cunninghamia beside our house which is obvious about shedding all its 3-year-old needles, but it usually sheds them from a whole twig at a time, as though they comprised a compound leaf.

The broad-leaved evergreens have similar variations in their leaf fall. Choice, dense-growing evergreens, like English boxwood, usually keep their leaves four years. The boxwood does not seem to have a special time of the year at which to shed its leaves. I rather think that the shedding is mostly done in the dry part of the summer. Boxwoods are so dense that there is an accumulation of dead leaves in among the twigs, as well as on the ground. The box-

wood leaf is usually so persistent that I should guess its shedding is caused by a lack of light.

The American holly is a curious tree in this respect. It loses all its leaves in April, just before the new leaves come out. The leaves are shed in the short space of a week, when there will be a thick pile of them under the plant. There is another peculiarity about hollies, in that there are two definite types, one which holds its leaves a full year and then loses them all in the spring, leaving the plant quite naked until the new growth is made, and the other type which loses only its 2-year-old leaves in the spring and thus has a denser foliage. Nurserymen propagating holly vegetatively should not only select berry-bearing plants, but foliated plants of the latter type, when they make their cuttings or do their grafting.

The broad-leaved evergreens that are hardy into the upper south, like the nandina, and also that group of

plants which are semievergreen generally hold their leaves until the temperature drops down below 20 degrees Fahrenheit, and then they shed them throughout the winter. Those which are a little more tender, like the glossy privet and the gardenia, tend to make most of their growth into the late fall, and, if there is any definite time for their shedding leaves, it is probably in the dry season.

I suppose there are as many peculiar methods of leaf shedding as there are different types of evergreens.

E. S. H.

## INVESTMENT SIDE LINES.

Among my acquaintances in the nursery industry there seems to be an increasing tendency to be financially interested in other types of enter-

## Best Wishes

for a

## Merry Christmas

and a

## Happy, Prosperous New Year

To our many nursery friends  
throughout the country.

**VERHALEN NURSERY CO.**

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## LILACS

On own roots.

Large plants, 5 ft. and up.

Charles X, William Robinson,  
Pres. Grovy, Leon Gambetta, etc.

To plant now

**AMERICAN ARBORVITAE, 10 ft.**

An assortment of heavy stock  
for landscaping.

**SAMUEL FRASER NURSERY, Geneseo, N.Y.**

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NURSERIES**



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Ornamental Nursery Stock

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**WHOLESALE ONLY**



**SEMMEs  
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**AZALEAS - CAMELLIAS**

and other choice evergreens.

**Wholesale Catalog SEMMEs, ALA.**

## Old English BOXWOOD

(Wholesale Only)

**SELLING OUT.** Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

**BOXWOOD GARDENS**

Mrs. R. P. Royer

High Point, N. C.



Photograph of Kolkwitzia, 12 to 18-in. transplant.

|                                | Per 100 |
|--------------------------------|---------|
| Kolkwitzia, T, 9 to 12 ins.    | \$12.00 |
| Kolkwitzia, T, 12 to 18 ins.   | 17.50   |
| Kolkwitzia, S, 6 to 9 ins.     | 9.00    |
| Rhus cotinus, S, 3 to 6 ins.   | 6.00    |
| Rhus cotinus, S, 12 to 18 ins. | 17.50   |
| Rhodotypos, S, 3 to 6 ins.     | 3.50    |

### NEWPORT NURSERY CO.

NEWPORT, MICH.

### HEAVY 2-YR. SHRUBS FRUIT TREES

### SPECIMEN EVERGREENS

### LINING-OUT STOCK

### SNEED NURSERY COMPANY

P. O. Box 798  
Oklahoma City 1, Okla.

### Beautiful NATIVE RED CEDARS

|               |                  |
|---------------|------------------|
| 5 to 10 ins.  | \$20.00 per 1000 |
| 10 to 15 ins. | 35.00 per 1000   |
| 15 to 24 ins. | 7.50 per 100     |
| 2 to 3 ft.    | 12.50 per 100    |
| 3 to 4 ft.    | 17.50 per 100    |

Will not be able to supply demand again this season. First come, first served.

Write for our new, very low prices on nursery stock. Big reductions.

**ROLLERS NURSERY**  
Phone: 661 ROGERS, ARK.

prises. Of course, by the nature of their business, nurserymen long have been interested in farming, orcharding and the florists' business. In a sense these are natural complements to their regular business and are often necessary off-season activity. However, new enterprises often reach sizable proportions and are not interrelated with the nursery business. In this section of the country, one popular business is raising broiler chickens, and this can become a big business.

It may be only a guess, but I feel that these side line investments are a reaction to the depression of the 1930's. In the nursery business, before depression, profits were usually expended for increased propagation and production, and the subsequent depression caught nurserymen with overextended inventories. Now, some profits which have been earned in the nursery business are being invested in other fields. If this is an actual fact, and not just my own guess, it may be a good thing.

It is true that some of these side line businesses are the result of the owner's backing into the nursery business through a hobby or vocation and retaining his original endeavor. Similarly, nurserymen have hobbies that often lead them into different enterprises and businesses.

I have known of nurserymen who have become bankers, printers, real-estate operators, politicians, hotel owners and writers. Similarly, I have known bankers, diplomats, newspaper editors and professors who have become nurserymen.

Outside interests are good for all of us, and, since money is obviously made in the nursery business, perhaps we would be just as well off if we would spend the proportion of our profits that we feel should not go into inventory on our personal family living, on our civic interests and on going fishing. All businesses are gambles, and ours is as good as the next, if we don't go wild. E. S. H.

FORMERLY of Witte Bros. Landscape Co., University City, Mo., Fred H. Witte has opened the Clayton Gardener, 1520 Quendo avenue, University City 14, Mo.

THE younger daughter of Mr. and Mrs. Carl Shamburger, Tyler, Tex., Patsy Ruth Shamburger was married November 25 to J. B. McKenzie, son of Mrs. Sally McKenzie. Their older daughter, Peggy, and her husband live at Austin and presented the Shamburgers with their first grandchild last spring. Mr. and Mrs. Shamburger also have a 9-year-old son, Carl, Jr.

## ORDER NOW

|                                                    |         |          |  |
|----------------------------------------------------|---------|----------|--|
| <b>CHERRY, Montmorency,</b>                        |         |          |  |
| <b>Early Richmond.</b>                             |         |          |  |
| 2-yr.-old.                                         | Per 100 | Per 1000 |  |
| 1-in. up, 5 ft.                                    | \$85.00 |          |  |
| 11/16 to 1-in., 4 1/2 ft.                          | 75.00   |          |  |
| 9/16 to 11/16-in., 4 1/2 ft.                       | 65.00   |          |  |
| 7/16 to 9/16-in., 4 ft.                            | 55.00   |          |  |
| <b>1-yr.-old.</b>                                  |         |          |  |
| 9/16 to 11/16-in., 3 ft.                           | 60.00   |          |  |
| 7/16 to 9/16-in., 3 ft.                            | 45.00   |          |  |
| 5/16 to 7/16-in., 2 1/2 ft.                        | 30.00   |          |  |
| <b>CHINESE ELM, seedlings,</b>                     |         |          |  |
| <b>2-yr.-old.</b>                                  |         |          |  |
| 9 to 12 ins.                                       | \$ 6.50 |          |  |
| 12 to 18 ins.                                      | 11.00   |          |  |
| 18 to 24 ins.                                      | 15.00   |          |  |
| 2 to 3 ft.                                         | 3.00    |          |  |
| 3 to 4 ft.                                         | 6.50    |          |  |
| 4 to 5 ft.                                         | 9.50    |          |  |
| 5 to 6 ft.                                         | 15.00   |          |  |
| <b>PRIVET, AMUR RIVER NORTH.</b>                   |         |          |  |
| 12 to 18 ins., 2 to 3 canes.                       | 4.50    |          |  |
| 12 to 18 ins., 3 to 4 canes.                       | 5.50    |          |  |
| <b>PRIVET, THOMPSON.</b>                           |         |          |  |
| 18 to 24 ins., 4 to 6 canes, 2-yr.                 | 7.50    |          |  |
| 18 to 24 ins., 6 canes up, 2-yr.                   | 10.00   |          |  |
| <b>POPLARS, LOMBARDY.</b>                          |         |          |  |
| Branched, 5 to 6 ft.                               | 15.00   |          |  |
| Branched, 4 to 5 ft.                               | 11.00   |          |  |
| Whips, 5 to 6 ft.                                  | 10.00   |          |  |
| Whips, 4 to 5 ft.                                  | 7.50    |          |  |
| Whips, 3 to 4 ft.                                  | 5.00    |          |  |
| Whips, 2 to 3 ft.                                  | 4.00    |          |  |
| <b>PURPLE LEAF PLUM, Newport.</b>                  |         |          |  |
| 5 to 6 ft.                                         | 90.00   |          |  |
| 4 to 5 ft.                                         | 75.00   |          |  |
| 3 to 4 ft.                                         | 60.00   |          |  |
| <b>FLOWERING PEACH, Double red.</b>                |         |          |  |
| 5 to 6 ft.                                         | 65.00   |          |  |
| 4 to 5 ft.                                         | 55.00   |          |  |
| 3 to 4 ft.                                         | 45.00   |          |  |
| <b>THUJA ORIENTALIS, Chinese Arborvitae, 2-yr.</b> |         |          |  |
| 9 to 12 ins., sdgls.                               | 4.00    | 30.00    |  |
| <b>PINUS NIGRA, Austrian Pine, 1-yr.</b>           |         |          |  |
| 2 to 4 ins., sdgls.                                | 4.00    | 35.00    |  |
| <b>JUNIPERUS VIRGINIANA, Platte River, 1-yr.</b>   |         |          |  |
| 2 to 4 ins., sdgls.                                | 2.50    | 20.00    |  |
| 4 to 6 ins., sdgls.                                | 3.50    | 30.00    |  |
| 30 at 100 rate; 300 at 1000 rate.                  |         |          |  |
| Packing FREE.                                      |         |          |  |

### M. MEYER'S NURSERY

5439 S. Hydraulic, R. 5 WICHITA, KAN.

### The CHRYSANTHEMUM CATALOG you cannot afford to be without.

WONDERLAND NURSERIES  
Ellersson, Va.

### AMERICA'S BEST SOURCE FOR HARDY PLANTS

WRITE FOR  
TRADE LIST

MENTOR,  
OHIO

Wayside

Gardens

## SUGAR MAPLE LINERS (Acer Saccharum)

With deciduous trees in good demand, these maple liners will rapidly grow into money.

|                 | Per 100 | Per 1000 |
|-----------------|---------|----------|
| 2 to 3 ft.....  | \$16.00 | \$150.00 |
| 3 to 4 ft.....  | 20.00   | 190.00   |
| 4 to 5 ft.....  | 25.00   | 235.00   |
| 5 to 6 ft.....  | 35.00   | 330.00   |
| 6 to 8 ft.....  | 45.00   | 425.00   |
| 8 to 10 ft..... | 60.00   | 575.00   |

Plant now and have the job out of the way.

## EVERGREEN NURSERY CO.

Established 1894

STURGEON BAY, WIS.

## NORTHERN-GROWN EVERGREENS

SPRUCE - JUNIPER

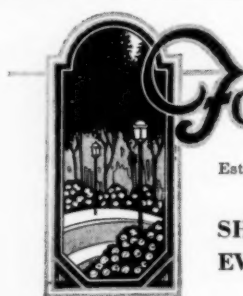
TAXUS - ARBORVITAE

Write for list.

## BROWN DEER NURSERIES

P. O. Box 1747

Milwaukee 1, Wis.



J. R. Boyd, President      John T. Boyd, Vice-president  
H. B. Stubblefield, Supt.

## FOREST NURSERY CO.

McMinnville, Tenn.

Established 1887

Long Distance Phone No. 234

Growers and Wholesale Dealers

SHRUBS, FOREST and SHADE TREES,  
EVERGREENS, VINES and CREEPERS

Trade list mailed on request.

## WANTED 50,000 SCOTCH PINE

5 ins. and up, Spring, 1950.

Quote prices on

Seedlings and Transplants.

**RITTER'S NURSERY**  
ROUTE 1      MUNCY, PA.

## WANTED TO BUY

200 Magnolia Grandiflora.

24 to 30 ins.

Reply to:

**CLARENDON GARDENS & NURSERY**  
Box 1065      PINEHURST, N. C.

## OBITUARY

### Roland deWilde, Sr.

Roland deWilde, secretary of Perkins-deWilde Nurseries, Shiloh, N. J., died at his home there December 1.

Mr. deWilde came to America from Holland in 1921 to become associated with Jackson & Perkins Co. to grow roses, azaleas and evergreens in south Jersey. With unusual acumen he rapidly absorbed American methods and established one of the outstanding nurseries of the country. In later years he specialized in coniferous evergreens. Besides being a good manager, Mr. deWilde was also an outstanding plantsman and was thoroughly versed in the intricacies of propagation of difficult and rare varieties.

A keen conservationist, Mr. deWilde foresaw the value of contour planting for growing nursery stock and instituted the soil conservation program at Perkins-deWilde Nurseries which earned for him national recognition from the United States Soil Conservation Service and the American Association of Nurserymen.

In all of his work, Mr. deWilde was closely associated with and assisted by his son, Klaas, who will take over his father's work at the nurseries.

Surviving Mr. deWilde are his widow, Laurina; four sons, Klaas, Bridgeton; Roland, Jr., and Louis, who established deWilde's Rhodo-Lake Nurseries, Shiloh, and John C. Washington, D. C.; eleven grandchildren, and two sisters in Holland.

### Howard W. Ford.

Howard W. Ford, of Howard W. Ford Nursery and North Tyler Nursery, Tyler, Tex., died suddenly November 29, leaving a widow and four young children.

A member of the East Texas Rose Growers' Association, Mr. Ford had served that organization as vice-president and director. He had also been a director of the Texas Rose Research Foundation, Inc., and his firm was a member of the Texas Association of Nurserymen and the American Association of Nurserymen.

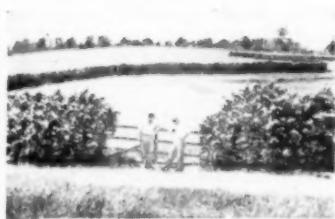
### Eugene Thomas Gaston.

Eugene Thomas Gaston, owner and operator of Linwood Nursery, Turlock, Calif., died recently and was buried in Turlock cemetery after memorial services, November 18.

Born in California, June 3, 1904,



## FOR THE FINEST IN MULTIFLORA FENCING



### WRITE HUGH STEVENSON

Originator and Developer  
of Multiflora Rose Fencing

prop., FORREST KEELING NURSERY, Elsberry, Mo.

Inquire about our "Country Club" grade for fencing town lots, country clubs, estates, institutions, nursing homes, airports and other locations requiring a climb-proof fence without the institutional appearance of steel fencing.

FORREST KEELING NURSERY, ELSBERRY, MO.

## LAKE'S SHENANDOAH NURSERIES

Shenandoah, Iowa.

Wholesale growers of  
a fine assortment of  
GENERAL NURSERY STOCK

Your inquiries will be appreciated.

## VIBURNUM BURKWOODI

New—Fragrant—Hardy  
Pinkish-white flowers in May  
Heavy pot-grown stock for lining  
out. Spring, 1950, delivery.

Per 100 Per 1000  
2 1/2-in. bands ..... \$27.50 \$250.00  
F.O.B. Dayton, Ohio

No charge for packing if check  
accompanies order.

THE SIEBENTHALER COMPANY  
3001 Catalpa Drive  
DAYTON 5, OHIO

## 50,000 DAHLIA ROOTS

We grow many acres of standard cut  
flower varieties for the trade.

Write today for wholesale price list.

PAYNE DAHLIA FARMS  
ROUTE 5 KANSAS CITY 3, KAN.

## GLADIOLI

will pay dividends at the nursery in the sale  
of bouquets to visitors, and the flowers bring in  
visitors.  
1000 mixed, flowering-size bulbs, 12 or more  
colors, our collection "N", \$16.50.  
Post card brings catalog, Jan. 1.

VENNARD'S NURSERY  
BOX 394-N SIOUX CITY, IOWA

he had been in the nursery business since his boyhood, and became well known to the industry in California as a specialist growing pecans, persimmons and walnuts.

Mr. Gaston's business will be continued by his sister, Mrs. Winifred Raymer, and a nephew.

### Mrs. Elizabeth M. Winslow.

Mrs. Elizabeth M. Winslow, formerly manager of the Winslow Nurseries, Needham, Mass., died at her home, at Needham, November 6. Her death was sudden, although she had not been in robust health for several years.

Until five years ago, Mrs. Winslow acted as manager of the nursery, in which she had taken an active part ever since it was founded by her husband, the late Robert G. Winslow, early in the twentieth century. She took over management after his death.

Mrs. Winslow is survived by a son, George A. Winslow, president of Winslow Nurseries; a daughter, Mrs. Dorothy Helen Hodgdon, Waltham, Mass.; a brother, F. Stedman Snow, present manager of the nurseries, and several grandchildren.

### Emmett J. Pfingstl.

Emmett J. Pfingstl, owner of the Emmett J. Pfingstl Nursery, Montgomery, Ala., died suddenly October 4. Mr. Pfingstl had recently developed a new seedling camellia, Joseph Pfingstl, named for his late father, which was put on the market this year. The business will be continued by his widow. The firm is a member of the Alabama State Nurserymen's and Florists' Association and the American Association of Nurserymen.

### Edward Fraim.

Edward Fraim, of Fraim Mfg. Co., garden tool manufacturers, and Fraim's Florists, Norfolk, Va., died suddenly of a heart attack November 16. He was 44 years old.

Survivors include his widow, Thelma; five small children, the youngest of whom are 6-week-old twins; two sisters, and three brothers, Joseph, his business partner, and two in Pennsylvania.

HAVING continued the Allen Veatch Nursery, 601 Spruce avenue, Rocky Ford, Colo., on a small scale since the death of her husband in 1942 and while her son, Hugh Bowen, was in military service, Mrs. Maude Veatch announces that her son has returned and taken over the management of the business.

## PFITZER JUNIPER LINERS

In plant bands for field  
planting.

Will outperform bare-  
root plants twice as large  
and cost you less money.

Book your order  
for spring.

Immediate or later de-  
livery if wanted.

We winter everything  
in the greenhouse.

300 or more,  
**\$13.50** per 100.  
Less than 300,  
**\$15.00** per 100.

McININCH GREENHOUSES  
ST. JOSEPH, MO.

## SPECIMEN LANDSCAPE MATERIALS

Our Specialty

## TAXUS

W. A. NATORP CO.  
Cincinnati 29, Ohio

## ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a  
general assortment for  
the best landscape plantings.

BRYANT'S NURSERIES  
Princeton, Illinois

## LINING-OUT STOCK

Ask for list or send your want list for  
quotation.

THE COTTAGE GARDENS  
N. I. W. Kriek  
LANSING 15, MICH.



Growers of a complete  
line of deciduous and  
coniferous species.

**JEWELL NURSERIES, INC.**  
Lake City, Minn.

### Northern-grown Stock

Send  
for  
Price  
List.

**J. V. BAILEY NURSERIES**  
St. Paul 6, Minn.

### THORNLESS HONEY LOCUST

|                             | Per 10  | Per 100  |
|-----------------------------|---------|----------|
| 6 to 8 ft.....              | \$15.00 | \$135.00 |
| 8 to 10 ft.....             | 17.50   | 150.00   |
| 1 1/4 to 1 1/2-in. cal..... | 22.50   | 200.00   |

### HACKBERRY, OCCIDENTALIS

|                             |       |        |
|-----------------------------|-------|--------|
| 6 to 8 ft.....              | 12.50 | 100.00 |
| 8 to 10 ft.....             | 15.00 | 135.00 |
| 1 1/4 to 1 1/2-in. cal..... | 20.00 | 175.00 |

Free packing. Cash, please.

**FOREST HILLS NURSERY**  
3736 HIGHLAND DR.  
SALT LAKE CITY 6, UTAH

### FOR PROMPT ACTION

Send us your Surplus List.

**GROWERS EXCHANGE, Inc.**  
Brightmoor Sta., DETROIT 23, MICH.

**BURTON'S**  
HEADQUARTERS FOR  
EVERGREEN GRAFTS, TRANSPLANTED  
EVERGREENS, SHRUB LINERS.  
RARE ITEMS YOU DO NOT  
FIND IN MOST LISTS! *Write!*  
**HILLTOP NURSERIES**  
(CASHTOWN, OHIO)

### BLUE STAR HIGHWAY PLANTED IN CONNECTICUT.

Trees and shrubs donated by the Connecticut Nurserymen's Association comprise the planting of the first plaque marking an 8-mile stretch of the new \$2,352,000 Blue Star Memorial highway in Connecticut, which was opened to traffic December 1 after 20-minute ceremonies. This is the first section of old U. S. Highway 1 to be reconstructed since the enactment of a statute naming this portion of the highway from New Haven to the Rhode Island state line as the Blue Star Memorial highway.

When it was learned November 25 that the highway was to be dedicated December 1, the Connecticut Nurserymen's Association immediately offered to donate the first planting. Upon authorization by the president of the state garden clubs and the state highway commissioner, a location for the first marker was selected by Peter J. Cascio, Peter Cascio Nursery, West Hartford, chairman of the nurserymen's Blue Star Memorial highway committee, and Russell Barnes, of the state highway department.

On November 28 the site was prepared by the state with eighteen inches of topsoil, and the next day in pouring rain nurserymen delivered trees and shrubs and made the planting. All plants selected are indigenous to Connecticut and include two red cedars as memorial trees, a white birch clump, a picturesque white pine, a white dogwood, seventeen mountain laurels, five viburnums, nine dwarf spreading junipers, ten bayberries and eight blueberry bushes.

All the firms contacted to donate plants responded immediately and were Stephen F. Hoyt's Sons Co., Inc., New Canaan; Scott's Nurseries, Bloomfield; A. N. Pierson, Inc., Cromwell; Clinton Nurseries, Clinton; Bristol Nurseries, Bristol, and Peter Cascio Nursery, West Hartford.

At the dedication Mrs. Woosley Conover, president of the state garden clubs, cut a ribbon across the highway and unveiled a temporary simulated bronze plaque which reads "A tribute to the armed forces who served in World War II sponsored by the Federated Garden Clubs of Connecticut in cooperation with the Connecticut Nurserymen's Association and the Connecticut State Highway Department."

About 200 persons attended the ceremonies, and state police escorted them over the new highway.

### WE HAVE IN QUANTITY

Apple, 2 and 3-yr.  
Pear, 2 and 3-yr.  
Cherry, 1 and 2-yr.  
Plum, 1 and 2-yr.  
Apricot, 1 and 2-yr.  
Peach, 1-yr.

Thurlof Weeping Willow,  
5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; Juniperus columnaris, glauca, keteleeri, Hill's Dundee, up to 3 1/2 to 4 ft. Pfizer Juniper, 15 to 18 and 18 to 24 ins. Austrian and Scotch Pine, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

**C. M. HOBBS & SONS, Inc.**

Phone: Indianapolis, Belmont 1812  
BRIDGEPORT, IND.

*Let SHERMAN'S supply  
your needs in...*

Apple Trees  
Plum Trees  
Cherries  
Small Fruits  
Ornamental Shrubs  
Shade Trees  
Phlox  
Roses  
Perennials

Write for quantity prices on the above.

**SHERMAN NURSERY CO.**  
CHARLES CITY, IOWA

### 30,000 Potted Taxus Liners

1, 2 and 3-year.

Weigela Eva Rathke, transplants.  
Viburnum Rhytidophyllum.

**HUMPHREYS LANDSCAPE SERVICE**  
MT. STERLING, KY.



Wholesale growers of the best

Ornamental Evergreens,  
Deciduous Trees  
Shrubs and Roses

Write for our current trade list.

**THE KALLAY BROTHERS CO.**  
Painesville, Ohio

Complete! Authoritative! Detailed!

### THE NURSERY MANUAL

By L. H. Bailey

Discusses and illustrates all popular nursery practices. Clearly indexed for quick reference.

Full information on propagation by seeds, cuttings, layers, buds, grafts. 222 pages listing plants in alphabetical order with correct Latin and English spelling and propagating methods for each.

An illustrative account of main diseases and insects affecting nursery stock.

Invaluable to the commercial grower.

470 pages—Price, \$5.00

For sale by

**AMERICAN NURSERYMAN**

343 S. Dearborn St. Chicago 4, Ill.

## SPECIAL BARGAIN OFFER

We offer 1000 Tree seedlings, Shrubs, Vines and Evergreens of our own selection.

Here are some of the items you will receive:

*Kerria japonica*, *Cydonia japonica rubra*, *Spiraea prunifolia*, *Cercis canadensis*, *Cornus florida*, Hemlock, *Juniperus virginiana* and many other good plants.

1000 for only **\$25.00**

**O. H. PERRY NURSERY CO.**  
BOX 545, McMinnville, TENN.

## QUALITY JUNIPER GRAFTS

For Spring, 1950, delivery, from 2 1/2-in. pots on *Virginiana* understock.

We are grafting *Juniperus virginiana canescens*, *glauca*, *pyramidiformis* (Dundee), *burki* and *ketelereri*. Grafts, 40c, packing at cost.

**PAUL ARTERBURN NURSERY**  
BOX 72 ST. MATTHEWS, KY.

SERVING YOU SINCE '72  
FROM  
THE CENTER OF THE SOUTH

THE **Southern**  
Est. 1872  
Nursery & Landscape Co., Inc.  
WINCHESTER, TENNESSEE

Phone-Write-Wire for Quotations

EVERGREENS  
SHRUBS  
SHADE TREES  
POPLARS

Write for surplus list.

THE HENRY NURSERIES  
Ingels Bros.  
HENRY, ILL.

## NARROW-LEAVED EVERGREENS

By L. C. Chadwick  
50 cents, postpaid.

Selection of superior varieties of trees, shrubs, vines and ground covers. Lists uses, culture, growth, habits and characteristics for landscape purposes. 64 pages.

**AMERICAN NURSERYMAN**  
343 S. Dearborn St. CHICAGO 4, ILL.

## SOUTHWESTERN NOTES.

Williams & Harvey Nurseries, Kansas City, Mo., have purchased a 28-acre tract at Eighty-third street and Mission road, near the radio tower of the Kansas City Star. The area is triangular, bounded on two sides by important thoroughfares. The present location of the nursery, at Seventy-third street and Mission road, is rapidly developing into a residential section, so the purchase of the new piece of land is in the nature of insurance in case it becomes desirable to change locations.

The salesyard of the Landscape Nursery, owned by George C. Barrett, Salt Lake City, Utah, has been moved from 330 Twenty-first East street, south, to 2908 Ninth South street, east.

The regular monthly meeting of the Kansas City Association of Nurserymen was held November 16, at the Wagon Wheels restaurant, Overland Park, Kan. About twenty-five members enjoyed a big fried chicken dinner served country style. After a brief business meeting conducted by President Ralph Johnston, Ralph's Nursery & Garden Shop, Kansas City, Kan., the group was entertained with several reels of colored movies taken by Stanley McLane, J. C. Nichols Co., on a western trip last summer.

The Shawnee Nursery & Landscape Co., Shawnee, Kan., has nearly completed a \$7,000 landscape job at the Harlan county dam near Republican, Neb.

Ralph's Nursery & Garden Shop, Kansas City, Kan., announces the opening of a florists' shop in addition to their other services.

Otto A. Schulz, dealer in nursery stock, has moved from Weslaco, Tex., to Centralia, Mo.

A new salesyard has been opened on United States Highway 40, a short distance west of Manhattan, Kan., by the Blueville Nursery, of which Marlin E. Scott is proprietor.

Cook & Cone, Ottawa, Kan., submitted the low bid of \$3,325 on a roadside improvement job in Thomas county, Kansas.

Prichard Nursery & Landscape Service began business recently at Blue Jacket, Okla.

A large part of a 6-page section of the Hillsboro Evening Mirror, Hillsboro, Tex., for October 16, was devoted to a write-up and congratulatory advertising of Yates Ranch & Nursery Co., which recently opened on a 650-acre tract near Blum, Tex.

On the campus of the University of Kansas, Lawrence, a memorial garden is being planted to the late Mrs. W. S. Griesa, wife of W. S. Griesa,



## ROSES

2-year, Budded  
For Forcing  
and Landscaping

WRAPPED—WATERPROOF  
PAPER AND COLORED LABELS  
FIVE CENTS ADDITIONAL

3-day Truck Service to Points East

500 Lots and Over  
No. 1, 40c—No. 1 1/2, 30c—No. 2, 25c  
100 to 500 Lots  
No. 1, 45c—No. 1 1/2, 35c—No. 2, 30c  
Orders for less than 100 roses  
No. 1, 50c—No. 1 1/2, 40c—No. 2, 30c  
List of Varieties — Hybrid Tea Everblooming  
Roses, 2-yr., Field-grown, Budded on Japanese  
Multiflora.

**REDS**  
Red Radiance  
Etoile de Hollande  
Poinsettia  
Ami Guinard  
Rouge Mailerin  
Red Talisman  
**PINKS**  
Pink Radiance  
Editor McFarland  
Betty Uppichard  
Pink Columbia  
Briarcliff  
**WHITES**  
Kaiserin A. Viktoria  
Caledonia  
Frau Karl Druschki  
—H. P.  
**YELLOW**  
Luxembourg  
Golden Dawn  
Mrs. P. S. du Pont  
Golden Ophelia  
Sunburst

**Scour Therese**  
Roslyn  
Yellow Talisman  
Golden Charm  
**VARIETIES**  
MULTICOLOR  
Edith Nellie Perkins  
President Hoover  
Talisman  
**POLYANTHA ROSES**  
—BABY ROSES  
Eise Poulsen  
Golden Salmon  
Improved Lafayette  
**CLIMBING ROSES**  
Paul's Scarlet  
Red Radiance  
Pink Radiance  
Cl. Talisman  
Cl. Red Talisman  
F. K. Druschki—  
H. P.  
Mrs. P. S. du Pont  
Red American Beauty

### USUAL TERMS AND CONDITIONS

Delivery Now or Late Spring.

Place your order today.

**OZARKS PLANT FARMS, Inc.**

523 SEMINOLE DRIVE SPRINGFIELD, MO.

## LIGUSTRUM AMURENSE

Per 100 Per 1000

12 to 18 ins., br. .... \$4.00 \$37.50  
9 to 12 ins., br. .... 3.50 32.50  
6 to 18 ins., liners. .... 2.50 22.50

## LIGUSTRUM OVALIFOLIUM

18 to 24 ins., br. .... 3.50 27.50  
12 to 18 ins., br. .... 2.50 22.50  
6 to 18 ins., liners. .... 2.00 15.00

## ABELIA GRANDIFLORA

Per 100

6 to 12 ins., lining-out ..... \$ 7.50  
12 to 18 ins., lightly br. .... 12.00

Order now for

Spring or immediate delivery.

**McMINNVILLE TREE CO.**

BOX 125 McMinnville, TENN.

**Boyd**  
NURSERY COMPANY

McMinnville, Tenn.

ORNAMENTAL SHRUBS  
SHADE TREES, VINES  
FOREST TREE SEEDLINGS  
LINING-OUT STOCKS

## WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

HARDY MUMS AND PHLOX.

Ask for our Perennial Catalog.

**WELLER NURSERIES CO., Inc.**

Leading Perennial Growers

HOLLAND, MICH.





## MALONEY BROS. NURSERY CO., INC.

Dansville, New York  
Established 1884

... offers a complete assortment  
for Winter and Spring shipment  
of

- 1 and 2-yr. Apple-Plum
- 1 and 2-yr. Std.  
and Dwarf Pear
- 1 and 2-yr. Sweet and Sour  
Cherry-Quince
- 1-yr. Peach

Also a good assortment of  
**Shrubs, Shade Trees, Evergreens.**  
Write for Wholesale Trade List.  
Kindly mail your Surplus List.

## COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade  
Trees, Roses and Lining-out Stock.

Write for complete list.

**ONARGA NURSERY CO.**  
ONARGA, ILL.

## AN EXTRA SALESMAN

How would you like to put  
on an extra salesman during  
conventions and busy periods  
in spring, without the task  
of searching for a man  
qualified for the job or the  
expense of maintaining him  
on the payroll at other times?

You can do it by using the  
advertising columns of the  
American Nurseryman to  
carry your offers of surplus  
stock, quote your prices and  
bring in the orders.

Try it—now!

Advertising rates on request.

American Nurseryman  
343 S. Dearborn St.  
Chicago 4, Ill.

proprietor of Mount Hope Nurseries,  
Lawrence. Mrs. Griesa was a member  
of the University of Kansas, class of  
1913.

Edwin Stark, Stark Bros. Nurseries  
& Orchards Co., Louisiana, Mo., as  
vice-chairman of the Missouri United  
Service Organization campaign com-  
mittee, presided at a meeting of  
USO leaders from eleven states at  
the Hotel Muehlebach, Kansas City,  
Mo., November 30. J. P.

## OKLAHOMANS HONORED.

The award of the Horticulture Club  
of Oklahoma A. and M. College,  
Stillwater, was awarded to J. Frank  
Sneed, Sneed Nursery Co., Okla-  
homa City, November 12 at the hor-  
ticulture show at the college. Mr.  
Sneed was honored for his outstand-  
ing service to the field of horticul-  
tural science during his many years  
in business in Oklahoma.

Similar recognition was given three  
other men in their branches of hor-  
ticulture. John W. Furrow, Furrow  
& Co., Oklahoma City and Guthrie,  
received it for contributions to the  
state's florists' industry; Thomas  
Munger, Enid, the seed industry, and  
Burser Hicks, Tulsa, pecan growing.

In each case the recognition in-  
cluded membership in the college  
horticulture club. B. H. P.

## DWARF PLANTS.

The increase in use of dwarf plants  
to fit the dimensions of smaller home  
grounds lends timely value to the  
autumn issue of Plants and Gardens,  
the quarterly magazine of the Brook-  
lyn Botanic Garden. Articles on  
various phases of the use and culture  
of dwarf shrubs and dwarf ever-  
greens make up this 68-page issue. In  
addition, about 350 species and varie-  
ties of dwarf plants are listed, with  
brief descriptions, at the back of the  
booklet.

The current practice of devoting  
individual issues of the publication to  
one type of plants makes these quar-  
terly booklets of real reference value,  
as well as interesting reading, for the  
nurseryman. Single copies are ob-  
tainable at 60 cents and yearly sub-  
scriptions at \$2 by addressing the  
Brooklyn Botanic Garden, Brooklyn  
25, N. Y.

NEWLY incorporated is the Black  
& Godwin Nursery, Inc., Orange,  
Tex., which was listed at \$24,000  
capital stock and given a 50-year  
charter of incorporation. Pearl L.  
Black, Macon H. Black and Eugene  
W. Godwin are the incorporators.

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Write for price list.



**SEASHORE PLANTING.**

[Concluded from page 10.]

cinea, white and scarlet oaks; Juniperus virginiana, red cedar; Elaeagnus angustifolia, Russian olive, and Ilex opaca, American holly.

Shrubs and trees should have a different treatment from that given the Japanese black pine, the bayberry or other plants that are used in the wind-swept, sandy areas. Finely granulated peat moss can save many plants under such conditions. It should be used when planting in the proportion of one-half peat to one-half sand. Where it is possible in planting trees or large shrubs, the sand should be dug out at least one foot deeper than necessary. The mixture of peat and sand is added to this additional depth and to an area of at least one foot greater than the spread of the root system or ball of earth. Where it is possible, topsoil mixed with peat moss is also helpful.

Snow fence barriers erected on the windward side aid in helping new plantings make a good start.

One grass that seems to have possibilities as a seashore lawn grass is Zoysia matrella, Manila grass. It cannot be used on the shore, but when somewhat protected by buildings or large plantings, it does all right and accepts the salt spray without injury. The objections to it are that it turns brown as soon as the first heavy frost appears and does not become green again until after the last heavy spring frost; it is expensive, and it is difficult to mow, even with a power mower, although it can be done. It is planted vegetatively with sprigs or plugs that are placed in rows in a well prepared seedbed. One square yard of thick sod will plant nearly 1,000 square feet, with rows about nine inches apart and the plugs three inches apart in the row. It is rolled the same as any new lawn. At least two years are needed to make a good lawn, and weeds must be controlled by 2,4-D or hand weeding. The grass likes extreme heat, such as was experienced in the summer of 1949.

Fescue, under the same protected conditions, develops into desirable lawn if the seedbed is well prepared.

It should be remembered that most plants under seashore conditions are not going to maintain so good forms as they would under normal atmospheric and soil conditions. The tree-tops often grow flat and twisted as the trees try to cope with conditions found only at the seashore. But, people build shore homes, and when they build they plant; thus, the nurseryman must also come to the shore of sand, salt spray and wind.

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We will ship direct to your customers if you desire. You're welcome to come and see our fields. Let us quote you on your entire needs.

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## CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

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SACRAMENTO 14, CALIF.

### SAVES MEMBERS COST OF DEALER LICENSE FEES.

Under interpretations of the law that had been made by representatives of the California bureau of markets, nurserymen in the San Jose area were being requested to take out dealer licenses at a cost of \$40, plus a \$1,000 bond. Feeling that the interpretation of the law was not in accordance with the intent of the law, due to a misunderstanding of the operation of the nursery business, Elmer Merz, executive secretary of the California Association of Nurserymen, requested meetings with heads of the bureau of markets for a full discussion of the law and its application to the nursery industry. After several meetings two points of apparent misunderstanding were brought out for further discussion, and the executive secretary, along with members Ray Hartman, James Clark, Fred Hammarstrom and Charles Armstrong, sat in with representatives of the bureau of markets and thoroughly discussed the two points and their application to the nursery business. As a result of that meeting, the following letter has been received by the office of the executive secretary from Joe Carey, chief of the bureau of markets:

November 21, 1949.

Dear Mr. Merz:

As a result of several conferences attended by yourself, members of your industry and representatives of the department of agriculture, it is believed that definite conclusions and statements of policy have been reached concerning the application of the produce dealers' act to nurserymen.

The points upon which major emphasis was placed were these:

First: When "liners" are purchased from growers and resold at wholesale to others, is such a transaction subject to the operation of the produce dealers' act, and does it require a license?

Our general conclusion is negative, in the light of other similar policies which apply when the person who makes the original purchase from the producer becomes in turn a bona fide grower or producer, and materially develops to maturity the farm product involved.

Second: Are sales by nurserymen to landscapers or gardeners resales at wholesale? Does this transaction require a license under the produce dealers' act?

Again, our conclusion is negative, on the ground that ordinarily the landscaping or gardening is done pursuant to a contract, which involves not only the supply-

ing of the nursery stock, but also labor and preparation of the soil, laying out beds, fertilizing and other material and incidental activities and items. In short, we believe that the sale by a nurseryman to a landscaper or gardener does not in itself comprise a resale at wholesale, except in cases where the landscaper or gardener purchases shrubs, trees or other nursery stock and then resells separately to a customer. In such latter cases, of course, the landscaper is actually not acting as such, but as a middleman in the transaction. In such event the nurseryman would require a license, provided, of course, that the farm products were originally purchased from a producer.

The conclusions above noted appear to coincide with the views expressed by your industry group and by department representatives. We wish sincerely to thank you and your industry for your cooperation in meeting with us, in disposing of these questions and generally in complying with the licensing and other regulations of the produce dealers' act.

Very sincerely yours,  
C. J. Carey,  
Chief of Division.

In agreeing with the views expressed by representatives of the as-

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Crude Drugs and Ornamentals

E. C. MORAN Stanford, Mont.

sociation as to the application of the dealer license law to the industry, only those nurserymen who buy nursery stock at wholesale and actually resell at wholesale products that they buy will be subject to the dealer license law. Nurserymen selling only their own-grown stock at wholesale or selling at discount to gardeners and landscape men who use materials to carry out work they have contracted for will not be considered to be subject to the dealer license.

Without this favorable decision, practically every nurseryman in California would have been subject to the law, for there are few nurserymen who do not at sometime or another buy liner stock which they grow on and which, under the original interpretation, would not have been their own-grown stock months or years later when they might have sold it; and discounts to gardeners or landscape men will not now be considered to be wholesale sales. Nurserymen can at any time sell at whole-

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Cherry, Sweet and Sour  
Can furnish carloads.

Also Shrubs, Evergreens and Shade  
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sale anything that they grow, but nurserymen who buy stock at wholesale which they again resell at wholesale are subject to the licensing provision of the dealer law. A discount, however, does not constitute a wholesale sale. Interpretation of a wholesale sale is a sale made at wholesale, of goods that are purchased to be resold to the consumer. Under the former interpretation as this applied to gardeners and landscape men it was contended that all material purchased was bought for resale, but under the interpretation as outlined in Mr. Carey's letter, goods are considered to be bought for resale only if the purchaser again resells them and bills them out as such, and does not use the material in landscape or garden work.

As the result of the work done by the association and its members on the above matter it can be conservatively estimated that the favorable decisions arrived at will mean a saving to members of the nursery industry of many thousands of dollars in licensing and bonding fees. This saving affects all nurserymen in the state whether or not they are members of the California Association of Nurserymen and can be pointed out as another reason why everyone in the nursery industry should be a member of and support a trade association.

This is only one of the many instances where the association has actually saved money for the industry, and certainly there is no better illustration of the value of a good trade association for the individuals in the industry themselves.

## LOS ANGELES MEETING.

The regular meeting of the Los Angeles chapter of the California Association of Nurserymen was held November 16, at the Y.M.C.A. building, Alhambra. Seventy-seven members were present.

All committees reported on their activities, and those working on the Christmas party reported that extensive plans had been made.

William H. Brown, William H. Brown Nurseries, Alhambra, program chairman, introduced David L. Cunningham, Rancho Del Descanso, La Canada, who acted as moderator for the round-table discussion of nursery problems. On the panel were W. A. Gilliland, Gilliland Gardens, Upland; David Stump, Armstrong Nurseries, Inc., Ontario; W. Wilkerson, Better Gardens, San Marino; James C. Perry, Perry's Plants, Montebello; Martin Usrey, Monrovia Nursery Co., Monrovia; Homer J. Bonillas,

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Pear, 1 and 2-yr., Dwarf and Standard

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Sweet and Sour Cherry,  
1 and 2-yr.

Quince, 2-yr.

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Peach, 1-yr.

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L. B. Merrick Nurseries, Whittier, and Mr. Watson, of the California National bank. The meeting closed with a long and lively discussion of many problems and questions from members. R. E. Weidner, Sec'y.

#### SAN FERNANDO CHAPTER OFFICERS.

Officers of the San Fernando chapter of the California Association of Nurserymen for the coming year are Edwin Schneider, Ed's Nursery, North Hollywood, president; James Harris, Palmdale Nursery, Palmdale, vice-president; Mrs. William Powell, Green Arrow Nursery, Van Nuys, secretary-treasurer, and Verne McIntyre, Toluca Lake Nurseries, Burbank, sergeant at arms.

At the chapter's November 9 meeting, held at Arturo's Redwood Village, Van Nuys, forty persons heard the evening's speaker, Sergeant Prettyman, of the San Fernando valley detective force, talk on checks and forgery. He emphasized that accepting checks is a risky business unless one knows the person who gives the check.

Price cutting was discussed, and the general consensus was to keep the prices up.

Two new members, Paul M. Pack, Sherman Oaks Nursery, Van Nuys, and Bill Sparr, owner of General Concrete Products Co., were present. Jean Powell, Sec'y.

#### SAN JOAQUIN PROGRAM.

Norvell Gillespie, garden editor of the San Francisco Chronicle, educational director of the California Spray-Chemical Corp., Richmond, and well known author and radio personality, was guest speaker at the meeting of the San Joaquin Valley

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chapter of the California Association of Nurserymen, held November 17. He discussed indirect methods of increasing public demand for nursery products. With the aid of Jay Rice, also of the California Spray-Chemical Corp., he presented an outstanding new color film on "How to Grow More Beautiful Roses."

Before the program was begun, Bill Garretson, Fresno Agricultural Chemical Co., was introduced and was given a membership blank. Syd Whitehorn, Fresno, president of the California Association of Nurserymen, then announced the new membership of W. H. Henderson, Henderson's Experimental Gardens, Fresno.

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derson's Experimental Gardens, Fresno.

A moment's silence was held in memory of Eugene T. Gaston, Linwood Nursery, Turlock, whose obituary appears on another page. The chapter sent flowers.

Ivan L. Stribling, Sec'y.

#### SUPERIOR CHAPTER ELECTS OFFICERS.

New officers elected to head the Superior chapter of the California Association of Nurserymen, at its September 21 meeting at the Tuesday Clubhouse, Sacramento, are as follows: Charles M. Staats, Sierra Gardens & Nursery, Sacramento, president; Fred Fick, vice-president, and Jerrold Vistica, Louis Vistica Nursery, Live Oak, secretary-treasurer. Donald C. Wiese, Donner Nursery, Sacramento, was elected state director, and chapter directors are Mr. Wiese; Adna R. Doll, Balkow Nursery, Sacramento; Richard B. Barlow, El Adobe Garden Shop, Davis; Walter Tecklenburg, Teck's



Officers and guests at the November meeting of the San Joaquin Valley chapter of the California Association of Nurserymen. Seated, left to right: Willis Stribling, Merced, director; Wilbur C. Wilhelm, Dinuba, president; Norvell Gillespie, garden editor of the San Francisco Chronicle, guest speaker, and Ivan Stribling, Merced, secretary-treasurer. Standing, left to right: Mrs. Wilhelm, Syd Whitehorn, Fresno, president of the California Association of Nurserymen, and Mrs. Whitehorn.



Nursery, Lodi, and Eugene A. Armstrong, Capital Nursery, Sacramento. P. J. Cruz, Sacramento, was reelected sergeant at arms.

State Assemblyman Gordon Fleury was the speaker for the evening and was introduced by Mandred Chapman. He told the story of a bill as it goes through its different readings and through the screening by the governor's legal staff before signature by the governor. He said that the assembly's biggest job is to get rid of bad legislation.

During the meeting, President Wiese thanked Harmon Rowe for a good exhibit at the state fair.

Walter Tecklenburg, Sec'y.

## TWO MEETINGS OF SUPERIOR CHAPTER.

At the October 10 meeting of the Superior chapter of the California Association of Nurserymen, held at the Alhambra restaurant, Sacramento, President Charles M. Staats reported five new members. They were Arden Town Nursery, Sacramento; Steve O'Neil's Soil Service; South Sacramento Nursery, Sacramento; Garden Rustics & Nursery, Sacramento, and Sutter Nursery Co., Sacramento.

Mr. Sherwood, Germain Seed & Plant Co., Los Angeles, was appointed chairman of the membership committee, and John Lagomarsino, F. Lagomarsino & Sons, Sacramento, was appointed program chairman for the next meeting.

Dr. Porter, speaker of the evening, and Mr. Fisher, of the research division of the Campbell Soup Co., told of development of new varieties of vegetables.

Mr. Schwilk, of the Sacramento Camellia Society, spoke on the possibility of another Sacramento camellia drive.

Three new members were reported by President Staats at the November 16 meeting, held at the Tuesday Clubhouse, Sacramento. They were East Side Nursery, Sacramento; Oki Nursery, Sacramento, and W. Johns Nursery, Lodi.

Mr. Diggles, of the Sacramento Businessmen's Garden Club, proposed that a Christmas party be held in lieu of the next meeting, December 19.

Jerrold Vistica, Sec'y.

## CENTINELA MEETING.

Forty-three members and guests of the Centinela chapter of the California Association of Nurserymen enjoyed steak dinner served at Kims, Inglewood, November 21, and after-



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## CALIFORNIA GROWN *Lining Out Stock*

We list just a few from our *unusually large selection*. In 2 1/4" pots — prices F.O.B. Monrovia. Minimum quantity 25 per variety. Immediate shipment to any part of the country.

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| Bouvardia rosea.....              | 15c     |
| Ceratonia siliqua.....            | 15c     |
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| Chamaelaucium ciliatum.....       | 17 1/2c |
| Eriobotrya japonica (loquat)..... | 12c     |
| Eucalyptus viminalis.....         | 10c     |
| Leptospermum flore pleno.....     | 15c     |
| Liquidamber styraciflua.....      | 12c     |
| Myrsine africana.....             | 12c     |
| Myrtus communis compacta.....     | 12c     |
| Pinus radiata.....                | 12c     |
| Prunus carolinana.....            | 12c     |
| Viburnum japonicum.....           | 12c     |
| Viburnum suspensum.....           | 12c     |

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## CHINESE ELM SEEDLINGS

|                       | Per 100 | Per 1000 |
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| 12 to 18 ins. . . . . | \$2.50  | \$15.00  |
| 18 to 24 ins. . . . . | 3.50    | 20.00    |
| 2 to 3 ft. . . . .    | 5.00    | 30.00    |
| 3 to 4 ft. . . . .    | 7.50    | 50.00    |

Send for prices on pear seedlings, etc.

**WASHINGTON NURSERIES**  
TOPPENISH, WASH.

## ROSES

2-yr., on multiflora, in all the most popular standard sellers. Also some on manetti for greenhouse use. Rooted multiflora for fence rows.

Send for list.

Art Suhr, prop.

**MT. HOOD NURSERY GRESHAM, OREGON**

ward heard a talk by T. H. Swim, director of research, Armstrong Nurseries, Inc., Ontario.

Mr. Swim gave a technical talk on rose breeding, culture and development of varieties. He also reported on the extensive testing and selecting being done at the various All-America Rose Selections, Inc., gardens throughout the United States.

A Christmas party is to be held December 19.

L. M. Hammond, Sec'y.

## CALIFORNIA NOTES.

Norvell Gillespie has started the first television garden program in the bay area. It is telecast weekly by station KRON-TV. The first guest speaker on the program was Peter Valinga, Burlingame, a Dutch bulb importer, who displayed various kinds of bulbs and gave a demonstration of potting them for winter home bulb displays.

Allison Eley, Eley's Gardens, Bakersfield, died of a heart attack early in October. He is survived by his wife, Maude.

J. P. Baglietto, owner of the California Seed & Hardware Co., Stockton, has liquidated his stock and is going out of business.

John Shamel, a recent graduate of the University of California, has opened a general retail nursery at Costa Mesa. He will operate it under the name of Shamel's Nursery.

E. L. ("Bill") Young, a graduate of California State Polytechnic College and Ohio State University, is now with the City College of San Francisco and will teach courses in plant breeding, nursery practice and greenhouse management, according to an announcement from Harry E. Nelson, who is in charge of the vocational courses in floriculture and ornamental horticulture at the college.

Richard Plath, H. Plath & Sons' nursery, San Francisco, was one of several who were threatened by an armed man at the Cottage Gardens Co., Inc., Eureka. No harm was done to anyone. The man left and was later captured a few miles from the nursery.

The California Arborists' Association held its November 16 meeting at the office of the San Mateo county commissioner, at Redwood City. Speaker for the evening was George Hood, nurseryman for the city of Palo Alto, who showed colored slides of the better city shade trees for the Palo Alto area and told of some methods of street planting in that city.

Stanley Keane has been made sales manager of Roy F. Wilcox & Co.,

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fruit trees  
shade trees  
grape vines  
flowering trees  
field & container  
groom orientals



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Hillsboro, Oregon

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## BALED SHINGLE TOW (CEDAR SHAVINGS)

**WM. A. JOHNSTON**  
1722 N. W. 15th St. Portland 9, Ore.

Montebello, where he has been production manager for the past several years. Before that he had been associated with Howard & Smith, Montebello; Henry A. Dreer, Inc., Philadelphia, and Germain Seed & Plant Co., Los Angeles, and had taught at the San Dimas branch of California State Polytechnic College.

Roy L. Scherer has resigned his position as foreman in charge of grounds at Leland Stanford University and is now associated with the Flower Garden, Palo Alto.

Bruce Martin, deputy agricultural commissioner for San Mateo county, is retiring December 31.

Kenneth Simms, formerly of Simms & Walker, Los Altos, has returned from a year's visiting in the Dakotas and is now with the Saratoga Camellia Gardens, Saratoga.

Gordon Wry has resigned his position at the Burlingame parks and is now with the San Mateo county agricultural commissioner as nursery inspector.

Ray Hobbs, who formerly was nursery buyer for the Sears Roebuck & Co., San Francisco, is now in charge of the nursery concessions at the Emporium and Hales department stores and the Weinstein drugstores, San Francisco.

Everett E. Farwell, who operates the Oak Knoll Garden Center, Oakland, has opened a branch at San Mateo. He has taken over the former Three Cities Nursery, which was operated by Ralph Garguilo for many years.

Robert Lucas has given up the flower concession at the Burr-Christian Nursery, Hayward. For the present, Mrs. Raymond J. Burr is taking care of the flower store. J. B. Christian, who has been hospitalized for more than a year, is now at home, but is still unable to take any active part in the business. Assisting Raymond Burr at the nursery is his brother, Howard ("Curly") Burr, who has resigned his position as buyer for a local cannery. W. B. B.

TO TAKE care of his orchard interests in eastern Washington, J. W. Kilner recently sold his Campus Nursery, Seattle, to Victor Mix. The firm will now be known as Vic Mix's Campus Nursery.

PURCHASE of Jordan's Greenhouse, Eugene, Ore., was made recently by John Van Dyke, formerly with State Flower Nursery, Bothell, Wash. Mr. Jordan, the former owner, is now living in the Philippines, where he is stationed as an army chaplain.

## PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE

Avery H. Steinmetz  
Paul E. Van Allen

PORTLAND 14, OREGON

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**FRUIT TREES and ROSES**  
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CONIFERS AND BROAD-LEAVED  
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FRUIT TREES  
DECIDUOUS SHRUBS  
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Available in rooted cuttings and field  
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Strong rooted cuttings.  
**KAEMPFERI.**  
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ALICE, salmon-red; ANNY, orange-red;  
BETTY, rose-pink; KATHLEEN, rosy-red;  
MARTHA, dwarf orchid-pink; SALMON  
KING, salmon-orange; THAIS, brilliant  
pink; OTHELLO, orange-red.  
All at \$10.00 per 100; \$90.00 per 1000.

**STANDARD VARIETIES:**  
ATLANTA, purple; CARMEN, rosy-pink;  
CLEOPATRA, shell-pink; FEDORA, salmon-  
rose; GRETCHEN, dark mauve; MARY,  
deep pink; LEDIFOLIA ALBA, white.  
All at \$7.00 per 100; \$65.00 per 1000.

**KURUME.**  
CORAL BELLS, shell-pink; FLAME,  
orange-red; HINODEGIRI, crimson-red;  
SALMON BEAUTY, salmon; SNOW, white.  
All at \$5.00 per 100; \$45.00 per 1000.  
Shipped anywhere with "B" certificate  
and without treatment.

**KOSTER NURSERY**  
Bridgeton, N. J.

**AZALEAS.**  
Thousands of beautiful, well budded, ex-  
cellent color, field-grown Coral Bells and  
Hinodogiri. Easy trucking distance to New  
York and other eastern points, but we ship  
anywhere. Satisfied customers in 12 states.

|               | Each    | Each     |
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|               | per 100 | per 1000 |
| 6 to 8 ins.   | \$0.70  | \$6.50   |
| 8 to 10 ins.  | .90     | 8.50     |
| 10 to 12 ins. | 1.15    | 1.00     |

Packing additional. Burlapping, 10c each  
extra, 25c at 1000 rate. Order today while  
they last, and send for list of other stock.

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Exmore, Va.

**AZALEA TRANSPLANTS.**  
3 to 5 ins. well branched. Hinodogiri,  
Pink Pearl, Hinomayo, Snow, Ledifolia alba,  
Magnifica, Coral Bells, Amoena and choice  
mixed. Ready in May, \$13.00 per 100. Pack-  
ing free. Cash with order.

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Box 144 Buckingham, Pa.

**AZALEA TRANSPLANTS.** Spring Delivery.  
**JOHN WIGMORE,** Norman Ave., Riverside,  
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**RASPBERRY PLANTS.**  
BLACK, No. 1 Tips. Bristol  
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Transplants on Cumberland.

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Sodus Transplants on Sodus.

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Latham

Complete list of grapevines, currants and  
blackberries. Write for lowest wholesale  
prices on your requirements. A portion  
of the above is in storage ready for immediate  
shipment, and a portion will be Spring-dug  
in late March.

**H. E. CONGDON NURSERY**  
North Collins, N. Y.

**RASPBERRY PLANTS.**

Latham Red Per 1000

No. 1 suckers.....\$30.00

1-yr. transplants.....40.00

2-yr. transplants.....50.00

No. 2 suckers.....18.00

Cumberland, Logan, Morrison.....20.00

Black Tips.....35.00

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C. H. BENEDICT, Grand Junction, Mich.

**STRAWBERRY PLANTS.**

Double inspected. Aroma, Blakemore, Klon-  
dike, Missionary, Dunlap, Klommore, Gem  
Supreme, \$5.00 per 1000. Gem Everbearing,  
\$10.00; Progressive, \$8.00; Tenn. Beauty,  
\$6.00. Prompt shipment.

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**STRAWBERRY PLANTS** — All leading  
everbearing varieties. Northern-grown. No. 1  
plants: Gem, Streamliner, Minnesota 1166,  
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tion, Twentieth Century and Bruner's Marvel.  
Write for wholesale price list.

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**BLUEBERRY PLANTS.**

Cultivated, improved hybrids.  
Information, varieties and prices gladly  
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**RASPBERRIES, No. 1 Morrison tips.** \$30.00  
per 1000.

**VICTORIA RHUBARB, 1 to 1 1/2 ins.** \$30.00  
per 1000; 3/4 to 1-in., \$20.00 per 1000; 1/2 to  
3/4-in., \$15.00 per 1000.

Can ship rhubarb any time; tips early spring.

**ASHCRAFT NURSERY**  
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**ROCKHILL EVERBEARING STRAW-**

**BERRY PLANTS** — Generous-size divisions.

No packing charge. Priced \$50.00 per 1000.

**P.O.B. Silvertown. Terms:** Cash with order.

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**BLOOMING-SIZE CAMELLIAS.**

To Fine Vase — Some to 3 1/2 ft.

**MANY WITH FLOWER BUDS.**

Priced from \$2.75 to \$7.50. DELIVERED.

Shipped in paper pots ready to slip into  
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**POT-GROWN CAMELLIAS.**

**1 AND 2-YEAR PLANTS**

**OF THE BETTER KINDS.**

35c to 60c. DELIVERED.

**WE PAY THE EXPRESS AND PACK FREE.**

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Wholesale Growers of Fine Camellias.

For 15 years — The Best from the Far West.

**IMPORTED LILY BULBS.**

Quantities available Per 100 Per 1000

10,000 Tenuifolium (coral).

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1000 Tigrium, 8 to 9 ins. 9.00 80.00

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10,000 Regale, 7 to 9 ins. 10.00 90.00

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**TUBEROUS BEGONIAS** — Antonelli prize-

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**DAHLIA SPECIAL.**

100,000 mixed Dahlia tubers.

\$5.00 per 100; \$45.00 per 1000.

List of named varieties on request.

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**HARDY NORTHERN-GROWN LILY BULBS.**

New, rare, scarce and unusual as well as

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New wholesale list now ready.

Send for your free copy.

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Send for list of Gladioli in all sizes and

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**HOLLAND-GROWN HYACINTHS.**

16 to 17 cm., \$9.00 per 100.

Pink, blue or white.

**BENTON COUNTY NURSERY CO., Inc.**

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Send for complete list of imported Begonias

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Write for complete list of selected Cannas.

**MONARCH PLANT FARMS**

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**EVERGREENS**

**LINING-OUT STOCK**

Pfitzer Juniper, Baker's Arborvitae, Blue

Spire Arborvitae, Wax-leaved Ligustrum,

Euonymus japonicus.

Well rooted cuttings.

\$8.00 per 100; \$75.00 per 1000.

Cash, please.

**SARVER NURSERY CO.**

P. O. Box 7062 Dallas 9, Tex.

## LINING-OUT STOCK.

| Seedlings                          | Per 100 | Per 1000 |
|------------------------------------|---------|----------|
| Acer palmatum, 3 to 6 ins.         | \$5.00  | \$45.00  |
| Fagus sylvatica, 8 to 10 ins.      | 8.50    | 75.00    |
| Fagus sylvatica purpurea,          |         |          |
| 8 to 10 ins.                       | 15.00   |          |
| Juniper virginiana, 2 to 4 ins.    | 5.90    | 49.00    |
| Laburnum anagyroides,              |         |          |
| 4 to 8 ins.                        | 3.50    | 30.00    |
| Magnolia glauca, 2 to 4 ins.       | 4.00    | 35.00    |
| Picea excelsa, 6 to 8 ins.         | 5.00    | 45.00    |
| Picea pungens glauca, 1 to 4 ins.  | 5.00    | 45.00    |
| Pinus mugo, 4 to 6 ins.            | 5.00    | 40.00    |
| Pinus mugo, 6 to 8 ins.            | 7.50    | 60.00    |
| Pinus nigra austriaca, 4 to 6 ins. | 6.00    | 50.00    |
| Pinus strobus, 4 to 6 ins.         | 4.00    | 35.00    |
| Pinus sylvestris, 4 to 6 ins.      | 4.00    | 35.00    |
| Pseudotsuga douglasii,             |         |          |
| 6 to 8 ins.                        | 5.00    | 45.00    |
| Pseudotsuga douglasii,             |         |          |
| 8 to 12 ins.                       | 7.50    | 60.00    |
| Thuja occidentalis, 4 to 6 ins.    | 4.50    | 40.00    |
| Thuja orientalis, understocks,     |         |          |
| 8 to 10 ins. tr.                   | 7.50    | 60.00    |
| Tsuga canadensis,                  |         |          |
| 6 to 8 ins. tr.                    | 12.00   | 100.00   |

Twice transplanted cuttings from beds

Per 10 Per 100

Juniperus communis hibernica.....\$2.25 \$20.00

Juniperus communis

suecica nana.....2.25 20.00

Taxus media, spreading.....2.75 25.00

Taxus media cliftoni.....2.75 25.00

Taxus media hatterfieldi.....2.75 25.00

Taxus media hicksii.....2.75 25.00

Taxus media Moon's columnaris.....2.75 25.00

Taxus media ovata.....2.75 25.00

Taxus media Vermeulen.....2.75 25.00

Well established cuttings from 2 1/2-in. pots

Per 10 Per 100

Andromeda japonica.....\$1.75 \$15.00

Euonymus carrierei.....1.75 15.00

Ilex crenata bullata.....1.75 15.00

Ilex crenata helleri.....1.75 15.00

Ilex glabra.....1.75 15.00

Juniperus communis hibernica.....1.75 15.00

Juniperus communis

suecica nana.....1.75 15.00

Juniperus depressa plumosa.....1.75 15.00

Juniperus excelsa stricta.....1.75 15.00

Juniperus glauca hetszi.....1.75 15.00

Juniperus horizontalis

Bar Harbor.....1.75 15.00

Juniperus horizontalis

glauca wilsoni.....1.75 15.00

Juniperus pfitzeriana.....2.25 20.00

Taxus baccata repandens.....1.75 15.00

Taxus cuspidata.....1.75 15.00

Taxus cuspidata capitata.....2.25 20.00

Taxus cuspidata nana.....1.75 15.00

Taxus media browni.....1.75 15.00

Taxus media henryi.....1.75 15.00

Taxus media hicksii.....1.75 15.00

Taxus media Moon's columnaris.....1.75 15.00

Taxus media ovata.....1.75 15.00

Taxus media Vermeulen.....1.75 15.00

Thuja occidentalis globosa.....1.75 15.00

novum.....1.75 15.00

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Mary Corey.....1.75 15.00

Thuja occidentalis nigra.....2.00 17.50

Thuja occidentalis pyramidalis.....1.75 15.00

**HESS' NURSERIES**

Mountain View, N. J.

**LINERS.**

Spring Delivery

Each

Azalea Mollis, cream, branched, XX,.....\$0.35

6 to 9 ins. fld......25

Camellia, Hermé, 2 1/2-in. pot......25

Camellia, Cheerful, 2 1/2-in. pot......25

Daphne

Odora, X......15

Cneorum, X......12

Mesereum, 4 to 6 ins. fld......07

Mesereum, 6 to 8 ins. fld......10

Heather

Bruckenthalia, XX, 2 to 4 ins., frame......17

Med. White, XX, 2 to 4 ins., frame......17

St. Maxwell, XX, 2 to 4 ins., frame......17



## TRANSPLANTS, LINING-OUT STOCK.

|                                      |         |         |
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| Colo. Blue Spruce, N. 4 to 8 ins.    | \$10.00 | \$90.00 |
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| White Spruce, N. 4 to 8 ins.         | 8.00    | 75.00   |
| Norway Spruce, N. 2 to 4 ins.        | 4.00    | 30.00   |
| Balsam Fir, N. 6 to 12 ins.          | 5.00    | 40.00   |
| Balsam Fir, N. 4 to 6 ins.           | 5.50    | 45.00   |
| Canadian Hemlock, N. 6 to 12 ins.    | 10.00   | 90.00   |
| Canadian Hemlock, N. 4 to 6 ins.     | 7.50    | 60.00   |
| American Arborvitae, N. 4 to 10 ins. | 8.00    | 75.00   |
| Mugho Pine, N. 4 to 6 ins.           | 5.00    | 40.00   |
| Scotch Pine, N. 2 to 5 ins.          | 4.50    | 35.00   |
| American Red Pine, N. 2 to 12 ins.   | 8.00    | 70.00   |

Prices F.O.B. nursery, packed in damp moss. Packed free for cash with order. Nice stock. Write for complete price list.

SUNCREST EVERGREEN NURSERIES  
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## HEDGE PLANTS.

AMUR RIVER SOUTH PRIVET.  
Undoubtedly the first and probably better than any grown in the South this year. Spaced well in the row to allow for heavy top development. All stock is field-grown, 1 and 2 years and generously graded. Packed well for shipment.

|                                  | F.O.B.             | F.O.B.          |
|----------------------------------|--------------------|-----------------|
|                                  | Scottsville Dallas | Per 100 Per 100 |
| 12 to 18 ins., field-grown, B.R. | \$ 4.00            | \$ 4.50         |
| 18 to 24 ins., field-grown, B.R. | 6.00               | 6.50            |
| 24 to 30 ins., field-grown, B.R. | 8.00               | 8.50            |
| 30 to 36 ins., field-grown, B.R. | 10.00              | 10.50           |
| 3 to 4 ft., field-grown, B.R.    | 15.00              | 16.00           |

## VERHALEN NURSERY CO.

1114 So. Beckley  
Scottsville, Texas  
Your Profits Grow in Verhalen Plants

## JUNIPERUS VIRGINIANA.

GRAFTING UNDERSTOCKS.  
We have a really fine batch of these plants in two grades, the first mechanically transplanted under irrigation on 2-ft. rows; the second potted last year and established for immediate grafting. Both can be shipped with a "B" certificate.

Selected pencil thickness, B.R., \$50.00 per 1000.  
Established understocks from pots, pot balls individually wrapped, \$100.00 per 1000.

## KOSTER NURSERY

Bridgeton, N. J.

## LINING-OUT STOCK.

|                         | Pot size           | Per 100 |
|-------------------------|--------------------|---------|
| Taxus cuspidata         | 2 1/4 to 2 1/2 in. | \$2.50  |
| Taxus hicksii           | 2 1/4 to 2 1/2 in. | 25.00   |
| Thuja pyramidalis       | 2 1/4 in.          | 20.00   |
| Thuja pyramidalis, Imp. | 2 1/4 in.          | 20.00   |
| Thuja woodwardii        | 2 1/4 in.          | 17.50   |

## SHRUBS.

Viburnum burkwoodii, 2 1/4 in. 35.00  
Cash with order, packing without cost.  
The HOLLANDIA GARDENS  
South Vienna, Ohio

## GRAFTS.

Juniperus canariensis, burki glauca, pyramidalis (Dunelm) and keteleeri. Other grafts at your request. Juniper grafts on virginiana understock for spring delivery, \$40.00 per 100; \$375.00 per 1000. 250 takes 1000 rate. Terms: Cash with order and free packing, or 25 per cent deposit with order, packing at cost, balance C.O.D.

## ARROW WOOD NURSERY

Box 166 Warsaw, Ky.

## TAXUS, LARGE LINERS.

|                          | Field-grown Transplants. | Per 100 Per 1000 |
|--------------------------|--------------------------|------------------|
| Taxus cuspidata capitata | 12 to 18 ins.            | \$60.00 \$550.00 |
|                          | 18 to 24 ins.            | 70.00 650.00     |

Also B&B Taxus, upright and spreading, in landscape sizes for Middle West shipment in carload lots.

BULK'S NURSERIES, Inc., Babylon, L.I., N.Y.

## PFITZER JUNIPERS.

Well established in 2 1/2-in. pots for immediate or future delivery at \$12.50 per 100 or \$110.00 per 1000. Write for our wholesale price list.

## COTTAGE HILL NURSERY

T. Klyono, Mgr. Mobile, Ala.

## NORWAY SPRUCE

Twice transplanted and regularly sheared. Dark green foliage. Each 2 to 3 ft. \$2.00  
3 to 4 ft. 3.00

## SCHNEIDER'S NURSERY

Bowie, Maryland

## EVERGREENS.

Exceptionally nice 2-yr. field-grown Juniperus glauca, burki glauca and canariensis. All grafted on virginiana understock. \$1.25 each. B&B F.O.B. nursery.

## PAUL ARTERBURN NURSERY

Box 72 St. Matthews, Ky.

## EVERGREENS.

Taxus cuspidata (Spreading yew). 3-year bedded liners, 10 to 12 ins., ready for field planting, \$30.00 per 100, \$250.00 per 1000.

## NICK'S NURSERY

Near Louisville Anchorage, Ky.

## CHINESE ARBORVITAE SEEDLINGS.

Grafters, 1/8 to 3/8-in. cal., 7c each.  
1-yr. adlgs., 6 to 10 ins., \$50.00 per 1000.  
2-yr. adlgs., hedge size, 18 to 24 ins., 10c each.  
LUKE NURSERY, Paula Valley, Okla.

## DOUGLAS FIRS.

8 to 12-inch Douglas Fir.  
\$7.50 per 100, \$50.00 per 1000.  
COASTAL GARDENS Sheridan, Ore.

## LINING-OUT STOCK.

Cherry Laurels, 2 1/2-in. pots, \$10.00 per 100. Cash with order. No charge for packing.  
PITTMAN'S NURSERY Magnolia, Ark.

## FRUIT TREES

## WHOLESALE PRICES ON

## FRUIT AND NUT TREES.

## PEACH TREES. Sizes and varieties below:

| 1-in. and up.         | Each               | 2 to 3 ft.    | Each       |
|-----------------------|--------------------|---------------|------------|
| 6 to 7 ft.            | \$0.35             | 2 to 3 ft.    | \$0.12 1/2 |
| 11/16-in., 5 to 6 ft. | .30                | 18 to 24 ins. | .10        |
| 9/16-in., 4 to 5 ft.  | .25                | 12 to 18 ins. | .08        |
| 7/16-in., 3 to 4 ft.  | .20                |               |            |
| Ambergem              | Hiley Belle        |               |            |
| Belle of Ga.          | Redbird            |               |            |
| Champion              | Rochester          |               |            |
| Early Rose            | Shipper's Late Red |               |            |
| Elberta               | J. H. Hale         |               |            |
| Late Elberta          | Heath Cling        |               |            |
| Early Elberta         | Indian Red         |               |            |
| Florida Jewel         | Mayflower          |               |            |
| Golden Jubilee        | Redhaven           |               |            |
| Halehaven             | Southaven          |               |            |

## APPLE. 2-yr., branched. 1-yr., whips

| 1-in. and up.         | Each   | 4 to 5 ft. | Each   |
|-----------------------|--------|------------|--------|
| 11/16-in., 5 to 6 ft. | \$0.40 | 4 to 5 ft. | \$0.25 |
| 9/16-in., 4 to 5 ft.  | .35    | 3 to 4 ft. | .20    |
| 7/16-in., 3 to 4 ft.  | .30    | 2 to 3 ft. | .15    |

|                     |                    |
|---------------------|--------------------|
| Anoka               | Red Rome Beauty    |
| Cortland            | Stayman Winesap    |
| Delicious, Dark Red | Turley Winesap     |
| Delicious, Yellow   | Yellow Transparent |
| Grimes Golden       | York Imperial      |
| Jonathan, All Red   |                    |

5-N-1 MULTIPLE VARIETY APPLE: 2-yr., branched; 9/16-in., \$0.75 ea 7/16-in., \$0.65 ea.

## APRICOT—PLUM—PRUNE—DAMSON—

| Each                 | Each              |
|----------------------|-------------------|
| 6 to 7 ft. \$0.55    | 3 to 4 ft. \$0.25 |
| 5 to 6 ft. .45       | 2 to 3 ft. .20    |
| 4 to 5 ft. .35       | 18 to 24 ins. .15 |
| Superb Apricot       | Methley Plum      |
| Moorpark Apricot     | Sapa Plum         |
| Early Golden Apricot | Shropshire Damson |
| Red June Plum        | Stanley Prune     |
| Bruce Plum           | Hunter Nectarine  |
| Abundance Plum       |                   |

STUART PECAN TREES. 2 to 3 ft., 90c ea.; 18 to 24 ins., 75c ea.

## CUMBERLAND VALLEY NURSERIES, Inc.

Box 308 McMinnville, Tenn.

A few thousand 3-year-old Apple: Jonathan, Double Red Jonathan, Yellow Delicious, Red Delicious, York, Turley, Wealthy, Rome Beauty, Double Red Rome Beauty, Grimes—11/16-in., 35c; 1 to 1 1/4-in., 75c; 1 1/4 to 1 1/2-in., \$1.15 each, in 1000 lots.

A few hundred Pear: Seckel, Duchess, Bartlett—1-in., 85c; 1 1/4-in., \$1.25 each, in 100 lots.

5000 Amur River North Privet, cut back, many branches, 2 to 3 ft., 9 1/2c; 3 to 4 ft., 13c; 4 to 5 ft., 20c each, in 1000 lots.

500 Hansen Dwarf Cherry, 3-yr., heavy, 3 to 4 ft., 30c; 4 to 5 ft., 60c each, in 1000 lots.

1000 American Ash, 1 1/2 to 2-in., \$1.50; 2 to 2 1/2-in., \$2.25 each.

## EGYPTIAN NURSERY &amp; LANDSCAPE CO.

Farina, Ill.

## REDUCED PRICES.

For first-quality stock.  
Apple trees, Per 100 Per 1000  
3-yr., 4 to 5 ft. \$20.00 \$175.00  
3-yr., 5 to 6 ft. 25.00 225.00

This block of apple trees consists of about 5,000 trees, well branched and free from disease.

Chinese Chestnut trees, transplanted in the spring of 1948 to the field, 1 to 2 ft., \$50.00 per 100; 2 to 3 ft., \$60.00 per 100; 3 to 4 ft., \$70.00 per 100; 4 to 5 ft., \$80.00 per 100. About 7,000 trees.

Free boxing and packing. If you come with your truck we will take off what it would cost us to pack.

## HOME NURSERY CO.

Fort Gay, W. Va.

## CALAMONDIN.

LIEQUAT.

KUMQUAT.

LEMON.

ORANGES, assorted varieties.

GRAPEFRUIT, assorted varieties.

SATSUMA.

8-in. pots Each \$2.00

10-in. painted cans. 3.00

16-in. green tubs. \$5.50 to 7.50

20-in. green tubs. 8.00 to 10.00

## GLEN SAINT MARY NURSERIES CO.

Glen Saint Mary, Fla.

## CHERRIES—Good height—well branched.

MONTMORENCY.

Size 9/16-in., 60c ea. Size 11/16-in., 70c ea.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

We offer for 1949 our usual supply of nursery stock.

|       |        |           |
|-------|--------|-----------|
| Apple | Peach  | Pear      |
| Plum  | Cherry | Apricot   |
| Pig   | Grape  | June buds |
|       |        | Pecan     |

Also ornamental and shade trees. Send us your want list. Write for prices.

JOPPA NURSERY CO.  
Joppa, Ala.

## APPLE TREES.

| Each                                                                    | Each per 100  |
|-------------------------------------------------------------------------|---------------|
| 2 to 4 ft., good caliper.                                               | \$0.25 \$0.12 |
| 4 to 5 ft.                                                              | .25 .20       |
| 5 to 6 ft.                                                              | .25 .20       |
| Red Delicious, Yellow Delicious, Jonathan, Yellow Transparent, Stayman. |               |

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

FRUIT AND NUT TREES of all kinds. Write for wholesale list. Thanks, FITZGERALD'S NURSERY, Stephenville, Tex.

## GROUND COVERS

VINCA MINOR (Hardy Myrtle). Have several hundred thousand made up. Large clumps, 20 to 30 canes, well rooted. Prompt shipment, \$4.00 per 100, \$35.00 per 1000.

H. C. WAUGH Cheshire, Ohio

## PACHYSANDRA TERMINALIS.

| Each               | Per 1000 |
|--------------------|----------|
| 1-yr., field-grown | \$5.00   |
| 2-yr., field-grown | 75.00    |

Cash with order, please.

HILLCREST GREENHOUSES, Franklin, Pa.

## EUONYMUS RADICANS VEGETUS.

Strong rooted cuttings. Per 1000 \$8.00 \$75.00  
PLANE-VIEW NURSERY  
Newport, R. I.

## HARDY PLANTS

HARDY PERENNIALS. Strong, rooted divisions, early spring shipment, March 25 to April 15, 300 at 1000 rate.

| Per 100 | Per 1000 |
|---------|----------|
| Per 100 | Per 1000 |
| Per 100 | Per 1000 |

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## HARDY PLANTS—Continued

## USE WELLER'S HARDY PHLOXES

For propagation.  
Now is the time to make them.  
See our catalog or ask for it.  
70 varieties to select from.  
WELLER NURSERIES CO., Inc.  
Holland, Mich.

## HARDWOOD CUTTINGS

**HARDWOOD CUTTINGS.**  
From Hardy Northern-grown Shrubs and Trees. Delivery now. From our own plantings and blocks checked yearly for accuracy. Cut 7 inches.

|                                                                          | Per 1000 |
|--------------------------------------------------------------------------|----------|
| Aronia melanocarpa                                                       | \$ 4.00  |
| Cydonia japonica                                                         | 6.00     |
| Cornus paniculata                                                        | 4.00     |
| Sibirica                                                                 | 4.00     |
| lutea (yellow bark)                                                      | 4.00     |
| amomum                                                                   | 4.00     |
| Forsythia intermedia                                                     | 3.00     |
| spectabilis                                                              | 3.00     |
| Elder, Golden                                                            | 6.00     |
| Cutleaf                                                                  | 4.00     |
| Red-berried                                                              | 5.00     |
| canadensis                                                               | 3.00     |
| Hydrangea P.G.                                                           | 5.00     |
| Hydrangea A.G.                                                           | 5.00     |
| Privet, Amor                                                             | 3.00     |
| Regel (true)                                                             | 3.00     |
| Ibota                                                                    | 3.00     |
| Honeysuckle, Morrow                                                      | 3.00     |
| bellia albidia                                                           | 3.00     |
| bellia rosea                                                             | 3.00     |
| tat, rosea                                                               | 4.00     |
| korolkowi                                                                | 4.00     |
| zabell                                                                   | 5.00     |
| syringantha                                                              | 5.00     |
| manacki                                                                  | 4.00     |
| Diervilla trifida                                                        | 4.00     |
| Philadelphus grandiflorus                                                | 3.00     |
| Mt. Blanc                                                                | 3.00     |
| Bouquet Blanc                                                            | 3.00     |
| coronarius                                                               | 3.00     |
| lemonel                                                                  | 3.00     |
| Physocarpus opul. aurus                                                  | 3.00     |
| Physocarpus opul. nanus                                                  | 3.00     |
| Sorbaria sorbifolia                                                      | 3.00     |
| Spiraea billardii                                                        | 3.00     |
| freibell                                                                 | 3.00     |
| thunbergi                                                                | 3.00     |
| vanhouttei                                                               | 3.00     |
| trichocarpa                                                              | 3.00     |
| Snowberry, White                                                         | 3.00     |
| Lilac, rothomagensis                                                     | 5.00     |
| Viburnum dentatum                                                        | 4.00     |
| Poplar, Lombardy                                                         | 3.00     |
| Willow, Niobe                                                            | 3.00     |
| Wisconsin                                                                | 3.00     |
| Golden                                                                   | 3.00     |
| Pussy                                                                    | 3.00     |
| Rosa rugosa                                                              | 7.00     |
| Rosa rugosa Hansa                                                        | 7.00     |
| Thuja pyramidalis                                                        | 25.00    |
| globosa                                                                  | 25.00    |
| wareana                                                                  | 25.00    |
| Packed free. Cash with order, please. Delivery in good order guaranteed. |          |

## THE SCOTCH GROVE NURSERY

Scotch Grove, Iowa

## CUTTING WOOD.

We offer the following list of hardwood cuttings. Tip cuttings, cut 6 ins. and up, untrimmed. F.O.B. Troutdale, Ore. Cash with order, packing free. All varieties, \$2.00 per 100; \$15.00 per 1000.

|                                       |  |
|---------------------------------------|--|
| Cham. laws. westerni                  |  |
| Cham. laws. wiswell                   |  |
| Cham. laws. aurea                     |  |
| Cham. laws. erecta viridis            |  |
| Cham. laws. Triumphant Boskoop        |  |
| Cham. nootkatensis compacta glauca    |  |
| Cham. pisifera plumosa                |  |
| Cham. pisifera plumosa aurea          |  |
| Cotoneaster micropophylla             |  |
| Cotoneaster francheti                 |  |
| Juniperus virginiana glauca           |  |
| Juniperus virginiana keteleeri        |  |
| Prunus lusitanica (Portuguese laurel) |  |
| Pyracantha coccinea                   |  |
| Pyracantha islandi                    |  |
| Sequoia gigantea                      |  |
| Taxus baccata                         |  |
| Taxus baccata aurea                   |  |
| Taxus cuspidata                       |  |
| Thuja occ. hoveyi                     |  |
| Thuja occ. lobbi                      |  |
| Thuja occ. wareana                    |  |
| Thuja occ. wareana aurea              |  |

## MOUNTAIN VIEW FLORAL NURSERIES

Route 2, Box 384

Troutdale, Ore.

## PFITZER JUNIPER CUTTINGS.

6 to 10 ins. long, not trimmed. Well packed. \$10.00 per 1000. Cash with order.

## KRONE'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

## ROSEBUSHES

**ROSEBUSHES.**  
Large selection of Hybrid Tea Roses, budded on Multiflora Japonica stock.  
For immediate or spring delivery.  
Send for list.

**CHARGLYN NURSERIES**  
P. O. Box 575 Painesville, Ohio

**ROSEBUSHES.**  
Magna Charta XXX (forcing grade).  
\$40.00 per 100.  
Cash with order.  
**CALL'S NURSERIES**  
Call Road Perry, Ohio

## ROSEBUSHES.

2-yr., field-grown.

The best methods of growing, digging and handling, plus liberal grading, are your assurance of the best in rosebushes. NO DEPOSIT REQUIRED ON ORDERS BOOKED NOW FOR SHIPMENT JANUARY 1 OR LATER. Prices effective until January 1. The supply of rosebushes is on the short side.

|           | Each    | Each       | Each   | Each   |
|-----------|---------|------------|--------|--------|
|           | Per     | Per        | Per    | Per    |
|           | 100     | 500        | 1000   | 1000   |
| No. 1     | \$0.35  | \$0.32 1/2 | \$0.31 | \$0.30 |
| No. 1 1/2 | .27 1/2 | .25        | .24    | .23    |

250 roses will be supplied at 1000 rate.

## RFD'S

|                    |                   |
|--------------------|-------------------|
| American Beauty    | Golden Dawn       |
| Ami Quinard        | Golden Ophelia    |
| Chas. K. Douglas   | Lady Hillingdon   |
| E. G. Hill         | Luxembourg        |
| F. S. Key          | Roslyn            |
| Etoile de Hollande | Socur Therese     |
| Red Radiance       | Sunburst          |
| Rouge Mallerin     | Mrs. P. S. duPont |
| Grenoble           | PINKS             |
| Sensation          | Briardell         |
| Night              | Columbia          |
| Polinettia         | Cynthia           |
| WHITES             | Editor McFarland  |
| Caledonia          | Paul Neyron       |
| F. K. Druschki     | Pink Radiance     |
| K. A. Viktoria     | Mrs. Chas. Bell   |
| White American     | Antoine Rivoire   |
| Beauty             | CLIMBING ROSES    |
| Snow Queen         | Paul's Scarlet    |
| POLYANTHUS         | Cl. Roslyn        |
| Golden Salmon      | Cl. Red Radiance  |
| Ideal              | Cl. Pink Radiance |
| Kirsten Poulsen    | Cl. Talisman      |
| Dainty Bess        |                   |
| Geo. Elger         |                   |

## RUSSELL WILSON NURSERY

Winnboro, Texas

## ROSES.

We have the following excellent 2-year-old, field-grown rosebushes. We offer them for delivery this fall only: No. 1, \$35.00 per 100; No. 1 1/2, \$30.00 per 100. Grown on multiflora seedlings.

|                      | RED                |
|----------------------|--------------------|
| Ami Quinard          | Etoile de Hollande |
| Red Radiance         | McGredy's Scarlet  |
|                      | PINK               |
| McGredy's Triumph    |                    |
| Pink Radiance        | Paul Neyron        |
| Golden Ophelia       | YELL               |
|                      | Sister Therese     |
| Condesa de Santiago  | TWO-TONE           |
| Pres. Herbert Hoover | Tallman            |

## WHITE

Frau Karl Druschki  
**GUS MASCHMANN ROSE NURSERIES**  
U. S. 36, West of Delaware, Ohio

## OWN-ROOT ROSES.

We have a limited quantity of Crimson Rambler Roses in surplus at this time and offer them as follows:

|           | 100 to 499 | 500 up   |
|-----------|------------|----------|
| No. 1     | \$20.00    | \$180.00 |
| No. 1 1/2 | 15.00      | 130.00   |
| No. 2     | 12.00      | 100.00   |

1 and No. 1 1/2 tied 10 per bundle, No. 2 tied 25 per bundle.

Terms: As Usual

## LAKE'S SHENANDOAH NURSERIES

Shenandoah, Iowa

**2-YR.-OLD OWN-ROOT PAUL'S SCARLET.**  
Per 100 Per 1000  
XX, heavy, 5 to 6 canes, 55c ea. 50c ea.  
No. 1, 3 to 4 canes, 45c ea. 40c ea.  
No. 1 1/2, 2 to 3 canes, 35c ea. 30c ea.

Ready to delivery now—Cash with order.  
(Freight or express delivery.)  
**PETERSON & DERING**  
Rose Growers Scappoose, Ore.

## ROSES.

Arp-grown with life insurance. Write for trade list while variety assortment is still good. Texas state pecan trees, black and English walnut, fig and persimmon. Licensed contract production of All-America roses.

**ARP NURSERY CO.**  
Box 867 Tyler, Tex.

**ROSEBUSHES**—2-yr. plants, grown right, graded right, packed right. Very complete assortment varieties. Ask for price list and book your requirements now.  
**ROSEMONT NURSERIES**  
D. L. Thompson, Mgr.  
Box 839 Tyler, Tex.

**NORTHERN OHIO FIELD-GROWN ROSES.**  
Write for list.  
**LESTER F. SQUARE NURSERIES**  
Wholesale Growers  
Painesville, Ohio

## ROSES.

See our display ad in this issue.  
**OSARKS PLANT FARMS, Inc.**  
Seminole Dr. Springfield, Mo.

## SEEDS

## FRESH COLLECTED, 1949 CROP.

Per lb.  
Cornus florida, dried berries, \$0.75  
Viburnum dentatum, dried berries, .75  
Ilex opaca, fresh seed berries, .65  
Ilex opaca, clean seeds, 3.00

## WILLIAM J. WRIGHT

R. D. 1 Bridgeton, N. J.

## AMERICAN NURSERYMAN

## PURPLE PLUM PITS.

(Idaho Italian Prunes.)  
Unprocessed, uncooked, \$1.00 per lb.  
**PAYETTE PACKING & PRESERVING CO.**  
Payette, Idaho

## SHRUBS AND TREES

## LINING-OUT STOCK.

Good, strong plants, ready for immediate delivery. Each

|                                                                        |        |
|------------------------------------------------------------------------|--------|
| Abelia grandiflora, 6 to 8 ins., 2 1/2-in. p.                          | \$0.12 |
| Abelia Edward Goucher, 6 to 8 ins., 2 1/2-in. pots                     | .15    |
| Arborvitae, Bakeri, 6 to 8 ins., 2 1/2-in. p.                          | .15    |
| Arborvitae, Howard's Golden, 6 to 8 ins., 2 1/2-in. pots               | .15    |
| Barbados-Cherry (Malpighia), heavy 2-year                              | .12    |
| Buxus harlandi, 4 to 6 ins., 2 1/2-in. pots                            | .12    |
| Buxus rotundifolia, 4 to 6 ins., beds                                  | .12    |
| Celastrum (evergreen), 6 to 8 ins., 2 1/2-in. pots                     | .12    |
| Cydonias, dwarf, dark red, cutting-grown, 8 to 12 ins., 2 1/2-in. pots | .15    |
| Euonymus japonicus, 6 to 8 ins., 2 1/2-in. pots                        | .12    |
| Forsythia Spring Glory, 12 to 15 ins., 2 1/2-in. pots                  | .15    |
| Gardenia fortunei, heavy, 2 1/2-in. pots                               | .12    |
| Gardenia Mystry, heavy, 2 1/2-in. pots                                 | .12    |
| Gardenia radicans erecta, dwarf, 2 1/2-in. pots                        | .12    |
| Hydrangea (evergreen), 6 to 8 ins., 2 1/2-in. pots                     | .15    |
| Ilex cassine angustifolia (Dahoon), 6 to 8 ins., 2 1/2-in. pots        | .15    |
| Ilex East Palaka, 6 to 8 ins., 2 1/2-in. pots                          | .18    |
| Ilex vomitoria (Yaupon), cutting-grown, 8 to 12 ins., 2 1/2-in. pots   | .15    |
| Jasmin, Primrose, 12 to 18 ins., 2 1/2-in. pots                        | .12    |
| Kadsura japonica, evergreen vine, 2 1/2-in. pots                       | .15    |
| Magnolia grandiflora, heavy, 6 to 8 ins., 2 1/2-in. pots               | .20    |
| Magnolia grandiflora, 10 to 12 ins., 4-in. pots                        | .30    |
| Parkman's Jasmine, dwarf, 4 to 6 ins., 2 1/2-in. pots                  | .15    |

(An excellent dwarf-growing plant for the new-type house with low window construction.)  
Pyracantha formosana milleri, red berry, cutting-grown, 8 to 10 ins., 2 1/2-in. p.  
Pyracantha islandi, 6 to 8 ins., beds.  
Cash, please.

**SARVER NURSERY CO.**  
P. O. Box 7062 Dallas 9, Tex.

## NURSERY-GROWN STOCK.

|                                                    | Per 100    | Per 1000 |
|----------------------------------------------------|------------|----------|
| Cornus florida                                     |            |          |
| White Flowering Dogwood                            |            |          |
| 6 to 12 ins., s.                                   | \$2.50     | \$20.00  |
| 12 to 18 ins., s.                                  | 3.50       | 30.00    |
| 18 to 24 ins., s.                                  | 4.50       | 40.00    |
| 2 to 3 ft., br.                                    | \$0.20 ea. |          |
| 3 to 4 ft., br.                                    | .25 ea.    |          |
| Liquidum sinense                                   |            |          |
| Amur River South Privet                            |            |          |
| 6 to 12 ins., s.                                   | 4.50       |          |
| 12 to 18 ins., s.                                  | 6.00       |          |
| 18 to 24 ins., s.                                  | 10.00      |          |
| Juniperus virginiana                               |            |          |
| Red Cedar                                          |            |          |
| 6 to 9 ins., tr., X                                | 5.00       | 40.00    |
| 9 to 15 ins., tr., X                               | 6.00       | 50.00    |
| 15 to 18 ins., tr., X                              | 7.00       | 60.00    |
| All stock below is first-quality, collected stock. |            |          |

**Tsuga canadensis.**  
Canadian Hemlock.

|                   |      |       |
|-------------------|------|-------|
| 4 to 8 ins., s.   | 2.00 | 15.00 |
| 8 to 12 ins., s.  | 3.00 | 25.00 |
| 12 to 18 ins., s. | 4.50 | 40.00 |
| 18 to 24 ins., s. | 6.00 | 55.00 |

**Ilex opaca.** American Holly.  
**Kalmia latifolia.** Mountain Laurel.  
**Rhododendron maximum.** Rosebay Rhodo.

|                   |      |       |
|-------------------|------|-------|
| 4 to 8 ins., s.   | 2.50 | 20.00 |
| 8 to 12 ins., s.  | 3.50 | 30.00 |
| 12 to 18 ins., s. | 5.00 | 45.00 |
| 18 to 24 ins., s. | 7.00 | 65.00 |

## CUMBERLAND PLATEAU NURSERY

York Route Crossville, Tenn.

**Russian Olive Seedlings.** Per 1000  
6 to 12 ins., 1-yr. \$10.80  
12 to 18 ins., 1-yr. 16.80  
18 to 24 ins., 1-yr. 24.00  
2 to 3 ft., 1-yr. 35.00

**Chinese Elm Seedlings**  
12 to 18 ins., 1-yr. 8.20  
18 to 24 ins., 1-yr. 12.00

**Silver Maple Seedlings.**  
12 to 18 ins., 1-yr. 10.80  
18 to 24 ins., 1-yr. 16.80

**FRANK MILLER NURSERY**  
R.R. 1 Manhattan, Kan.

**TAXODIUM DISTICHUM**—We can furnish this scarce and beautiful tree in sizes 3 to 4 ft. and up to 7 ft., B&B. Our plants are bushy and straight.

**ACER SACCHARUM**—We have many thousands of these in all sizes from 3 to 12 ft. The finest lot we ever saw.

**THE WING NURSERIES**  
Mechanicsburg, Ohio

**FIRST-CLASS NURSERY STOCK.**  
Abelias, Azaleas, Baker's and Blue Spire Arborvitae, Crapemyrtle, Camellias, Gardenias, Holly, Junipers, Magnolia grandiflora and nigra, Pyracantha in cans, Wistarias, Yaupon and much other fine stock. Bring your trucks.

**SARVER NURSERY CO.**  
P. O. Box 7062 Dallas 9, Tex.

Phone: D4-2192

## HEDGE PLANTS.

|                                   |          |
|-----------------------------------|----------|
| Privet, Amur River North          | Per 1000 |
| 2 to 3 ft., 2 and 3 canes.....    | \$ 50.00 |
| 3 to 4 ft., 4 canes and up.....   | 60.00    |
| Privet, California                |          |
| 12 to 18 ins., well branched..... | 25.00    |
| 18 to 24 ins., well branched..... | 40.00    |
| 2 to 3 ft., well branched.....    | 50.00    |
| 3 to 4 ft., well branched.....    | 60.00    |
| Privet, Itoha                     |          |
| 2 to 3 ft., well branched.....    | 55.00    |
| 3 to 4 ft., well branched.....    | 65.00    |
| Privet, Regal Border              |          |
| 24 to 30 ins., well branched..... | 160.00   |
| 30 to 36 ins., well branched..... | 185.00   |
| 3 to 4 ft., well branched.....    | 200.00   |
| Lagerstroemia indica              |          |

|                                  |                  |
|----------------------------------|------------------|
| Improved watermelon-red and pink |                  |
| Crape Myrtle                     | Per 100          |
| 15 to 18 ins.....                | \$12.00          |
| 18 to 24 ins.....                | 15.00            |
| 24 to 30 ins.....                | 20.00            |
| 30 to 36 ins.....                | 25.00            |
| 3 to 4 ft., well branched.....   | 20.00            |
| 4 to 5 ft.....                   | 50.00            |
| 5 to 6 ft.....                   | 60.00            |
| Spiraea vanhouttei               | Per 100 Per 1000 |
| 2 to 3 ft., well branched.....   | \$15.00 \$140.00 |
| 3 to 4 ft., well branched.....   | 20.00 185.00     |

## TWINITY NURSERY

P. O. Box 777 Texarkana, Tex.

## RED JAPANESE MAPLE SEEDLINGS.

Carefully selected for good red color.

|                             |         |
|-----------------------------|---------|
| Acer palmatum atropurpureum | Per 100 |
| 10 to 13 ins. XX.....       | \$40.00 |
| 8 to 10 ins. XX.....        | 30.00   |
| 6 to 8 ins. XX.....         | 25.00   |

## ELWOOD HUBBS

204 Delaware Ave. Palmyra, N. J.

## REMOVAL SALE.

On 20 acres of nursery stock. Medium to large sizes of 40 different varieties including Norway Maples, Taxus, Arborvitae, Ginkgo, Oaks and Lindens. Write us for our price list.

## SWAN RIVER NURSERY

615 E. Main St. Patchogue, L. I., N. Y.

## PINK DOGWOOD OUR SPECIALTY.

|                   |             |
|-------------------|-------------|
| 2 to 4 ft.....    | \$2.00 each |
| 3 to 3 ft.....    | 1.50 each   |
| 18 to 24 ins..... | 1.00 each   |
| 12 to 18 ins..... | .75 each    |

## IKE HAWKERSMITH NURSERY

Winchester, Tenn.

## MIMOSA SEEDLINGS.

Pink-blooming, 8 to 12 ins., \$2.50 per 100; 12 to 18 ins., \$5.00 per 100; 500 and up, 20 per cent discount. Make 6 to 10-ft. trees in one season.

## NOBLE NURSERY

Noble, Okla.

## ORNAMENTAL TREES.

Hard Maples, American Elms, Sycamores, 4 to 6 ft., \$1.50 ea.; 6 to 8 ft., 60c ea.; 8 to 10 ft., 90c ea.; 10 to 12 ft., \$1.15 ea.

## BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

## 500 NORWAY MAPLES.

Planted 8 x 8 feet.  
5 to 6-inch caliper.

## SWAN RIVER NURSERY

Patchogue, L. I., N. Y.

## VEGETABLE PLANTS

## CHIVES.

From outside beds.  
Per 100, prepaid, \$2.50  
Per 1000, prepaid, \$20.00

## TRAUBENICHT NURSERY CO.

400 No. Sylvania Ave. Ft. Worth 11, Tex.

## VINES

## GRAPEVINES.

Concord, 2-yr., No. 1, \$45.00 per 1000.  
BENTON COUNTY NURSERY CO., Inc.  
Rogers, Ark.

## SUPPLIES

## DAHLIA OR TREE LABELS.

|                                         |               |      |
|-----------------------------------------|---------------|------|
|                                         | Plain Painted | 3.00 |
| 3 1/2 x 4 ins., notched, not wired..... | \$2.50        |      |
| 3 1/2 x 4 ins., wired.....              | 3.00          | 3.50 |

## POT LABELS.

|                                  |      |      |
|----------------------------------|------|------|
| 4x ins. (cartons 1000 each)..... | 2.50 | 3.00 |
| 5x ins. (cartons 1000 each)..... | 2.75 | 3.30 |
| 6x ins. (cartons 1000 each)..... | 3.25 | 3.75 |

## GARDEN STAKES.

|                                      |      |      |
|--------------------------------------|------|------|
| 8x 1/2 ins. (cartons 500 each).....  | 2.50 | 3.00 |
| 10x 1/2 ins. (cartons 500 each)..... | 3.00 | 3.50 |

## GARDEN STAKES.

|                                      |      |      |
|--------------------------------------|------|------|
| 8x 1/2 ins. (cartons 250 each).....  | 2.00 | 2.25 |
| 10x 1/2 ins. (cartons 250 each)..... | 2.25 | 2.50 |
| 12x 1/2 ins. (cartons 100 each)..... | 1.25 | 1.50 |

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

## YOH &amp; HOOKER

Youngstown 2, Ohio

GIBRALTAR Frost Covers pay for themselves. Economical, long-lasting, ideal for windbreaks. 6 ft. wide; 50 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N. Y.

## PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders, Samples sent.

J. GARLAND HILL, Dept. A, Seaford, Del.

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

## KNOCK-DOWN FLATS.

|                  |                 |
|------------------|-----------------|
| 16x12x2 1/2..... | \$18.82 per 100 |
| 16x14x3.....     | 24.98 per 100   |
| 20x14x2 1/2..... | 24.56 per 100   |
| 20x14x3.....     | 28.68 per 100   |
| 22x14x2 1/2..... | 28.14 per 100   |
| 22x14x3.....     | 32.63 per 100   |

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

## HIGHTOWER BOX &amp; TANK CO.

Birmingham, Ala.

## CAMOSHADE.

## WAR SURPLUS CAMOUFLAGE NETTING.

Just the thing for a new partial-shade house. Hundreds now in use for sun, wind and frost protection. They are being used to shade azaleas, camellias, nymphaea, seed beds, cuttings and tender plants. Make attractive covering for salesyards. Also for all other uses in the nursery and floral industry where partial shade and plant protection is necessary. Treated against mildew and rot. Will last for years. Most economical to use. 3 sizes available now. F.O.B. our shipping point. Supply limited.

|                               |  |
|-------------------------------|--|
| 22 ft. x 22 ft., \$ 8.25 each |  |
| 22 ft. x 22 ft., 9.95 each    |  |
| 35 ft. x 45 ft., 14.25 each   |  |

## WILSON BROS.

Newsmo 6, Texas

## ELECTRIC PROPAGATING KITS.

## FOR GREENHOUSE BENCHES OR HOT-BEDS—Each contains long-lasting HEAT-SUM CABLE, Soil Thermostat, Pilot Lamp and Thermometer.

| Sq. Ft. | Length and | Price |
|---------|------------|-------|
|---------|------------|-------|

|                                   |  |  |
|-----------------------------------|--|--|
| Unit Heated Watts Volts No. Units |  |  |
|-----------------------------------|--|--|

|                        |         |
|------------------------|---------|
| A 20 300 110 1- 60 ft. | \$18.93 |
|------------------------|---------|

|                        |       |
|------------------------|-------|
| B 40 400 110 2- 60 ft. | 23.83 |
|------------------------|-------|

|                         |       |
|-------------------------|-------|
| D 80 800 110 1- 300 ft. | 32.43 |
|-------------------------|-------|

|                           |       |
|---------------------------|-------|
| E 150 1500 110 1- 500 ft. | 48.93 |
|---------------------------|-------|

|                           |       |
|---------------------------|-------|
| F 300 3000 220 1-1000 ft. | 76.30 |
|---------------------------|-------|

All prices F.O.B. Seattle

## COLDFRAME FROST PROTECTION —

Same equipment will protect 50 PER CENT MORE AREA. LITERATURE ON REQUEST.

L. N. ROBERSON CO.

1539 East 103rd St. Seattle 53, Wash.

Now is the time to build new low-cost shade houses, or to replace your old worn-out lath or slat houses with Brand-New Low-Cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, galvanized with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 6 ft. wide, containing 450 sq. ft. inexpensive and easy-to-construct lath houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

H. M. OWEN

P. O. Box 946

Columbus, Miss.

E. A. FARLEY

3333 Gentilly Blvd.

New Orleans, La.

Increase Your Profits With PLANT COVER NETS.

Stop plant and seedling losses. Use plant cover nets for year-round plant protection. Perfect for shade; protect plants from frost, snow and hail. Keep out birds, pests. Nets guaranteed new, perfect condition. Mildew-proof, water-resistant, rot-resistant. Last 3 to 5 years—very economical. Available in 3 convenient sizes. F.O.B. nearest of 6 convenient shipping points over the nation. Less than 1c per sq. ft. Order yours today!

|                         |  |
|-------------------------|--|
| 45x45-ft., \$19.75 each |  |
| 36x44-ft., 14.75 each   |  |
| 29x29-ft., 9.95 each    |  |

## G.I. SURPLUS DISTRIBUTING CO.

P. O. Box 943 Dept. AN 12-16 Austin, Tex.

## HARDWOOD CUTTING MACHINES.

Save time, save labor, save money. Use Wilson's Hardwood Cutting Machine to make up your cuttings. Cutting blades made of best steel, sharpened and will keep a keen cutting edge. Particulars on request.

RUSSELL WILSON

Winnabro, Tex.

## HIGH NITROGEN HORTICULTURAL PEAT.

Unexcelled for soil-improving work. Used by leading growers for a quarter century. One 3-bushel bag, \$1.25; 10 bags, \$1.15; 25 bags or more, \$1.00 each.

COLBY PIONEER PEAT CO., Inc.

Hanlontown, Iowa

## PRINTING.

Full-color printing of catalogs, pamphlets and folders. Full-color picture tags and labels of Roses, Fruits, etc., for individually wrapped Nursery stock. Samples available.

THE COLOR PRESS

Winnabro, Tex.

## WISCONSIN'S QUALITY SPHAGNUM MOSS.

Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better. Trucked when feasible.

WARRENS MOSS CO., Box 7, Warrens, Wis.

## MINNESOTA WHITE CEDAR FLATS.

|                  |                 |
|------------------|-----------------|
| 12x16x2 1/2..... | \$16.24 per 100 |
| 14x20x2 1/2..... | 20.00 per 100   |
| 14x20x3.....     | 23.00 per 100   |

Other sizes quoted on request. Also crating and other lumber, Aspen and Pine. F.O.B. Cook, Minn. Please attach check.

H. C. HILL &amp; SONS, Cook, Minn.

## PEAT MOSS.

Highest-quality acid sphagnum peat moss weighing about 8 lbs. per loose bushel, 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00 each. Large burlap half-bale bags, \$1.50 each; 10 or more, \$1.50 each.

COLBY PIONEER PEAT CO., Inc.

Hanlontown, Iowa

## BLACK MAGIC PEAT MOSS.

Mixed with soil for potting plants. Aerates, lightens soil and holds moisture. Keeps plants flourishing.

90c per bu., 10 bu. for \$7.50. F.O.B. Rogers, Ark.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

## NURSERY REQUISITES.

Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders.

Catalog on request.

Since 1900.

TYSON ORCHARD SERVICE

Flora Dale (Adams County), Pa.

## TREE DIGGERS.

The Tree Digger gets all the roots with your Fruit Trees, Shade Trees, Flowering Shrubs, Rosebushes, etc. Nursery stock properly dug with all the roots means satisfied customers. Particulars on request.

RUSSELL WILSON

Winnabro, Tex.

## ELECTRIC SOIL HEATING KITS.

Dependable "G.E." units for hotbeds and greenhouses at low wholesale prices. Write for free "Soil Heating Bulletin."

FULHAM, P. O. Box 497, McComb, Miss.

## 2000 SEED BED SASH, slightly used, 3x6 ft., 18 lights, steel or hardwood faced, 1 1/2" stock shingle-fashion glass. Farming Division, GENERAL CIGAR CO., Inc., P.O. Box 45, West Hartford, Conn.

## SPHAGNUM MOSS.

Write for prices on burlapped and wire-bound bales.

THOMAS RESHEL

City Point, Wis.

## PAY LESS FOR WOOD LABELS. High quality, fully guaranteed. Write for prices and samples. ANTHONY &amp; Co., Escanaba, Mich.

Surplus Stock can be easily and quickly turned into Cash by listing it in the American Nurseryman Classified Ads.

## WANTED

## WANTED TO BUY NOW.

166 Cotoneaster acutifolia, 3 to 3 1/2 ft. high, branched.

12 Ribes alpinum, 3 ft. high, branched.

4 Philadelphus coronarius, 5 ft. high, branched.

2 Forsythia suspensa, 4 ft. high, branched.

14 Ampelopsis tricuspidata, 2-yr. potted plants, or older.

4 Ulmus americana, 3-in. caliper, branched.

102 Euonymus alatus compactus, 3 to 3 1/2 ft. high, branched.

20 Euonymus radicans vegetus (Winter-creeper), 3-yr., B&B.

50 Pachysandra terminalis (Japanese Spurge), 6 ins. high, mature.

Please quote me a price on the above, and I will pay cash for the order. Specify whether your price is F.O.B. your nursery or F.O.B. Davenport, Iowa.

PHILIP H. TUNNICLIFF

Landscape Designer and Surveyor

2216 Newberry St. Davenport, Iowa

## WANTED.

5000 Euonymus and Viburnum in lining-out sizes; also a few thousand liners in Beautyberry, American Holly, Japanese Dwarf Maple, Sweet Gum, Hydrangea, Spiraea, Lonicera, Barberry, Hackberry, Boelea Poplar, Blue Spruce, Concolor and Douglas Fir, Upright and Spreading Yew.

EGYPTIAN NURSERY &amp; LANDSCAPE CO.

Farina, Ill.

## NURSERY STOCK WANTED.

Azalea Mucronulatum.

Sizes, 12 ins. and up.

Vinca minor, Bowles variety.

Field clump.

THE PETER CASPARI NURSERY

2600 Albany Ave. West Hartford 7, Conn.

## WANTED.

1000 Moline Elms.

6 to 8 ft. and 8 to 10 ft.

Send surplus list.

L. E. STONE &amp; CO., Inc.

P. O. Box 516 Bensenville, Ill.

## WANTED.

Surplus Azaleas, Lilacs, Evergreens, Flowering Trees.

LEY BROS.

Nurseries and Landscaping

LaPlata, Md.



## WANT ADS

Help and Situation Wanted and For Sale advertisements.

**Display: \$3.00** per inch, each insertion.

**Lines: 25¢** line: minimum order **\$2.00.**

### HELP WANTED

#### NURSERY MANAGER

Unique opportunity for one or more men (or women) with nursery know-how, of executive ability, to acquire part ownership in one of the finest nursery business in the southwest. Established by owner over 20 years ago; catering to the best garden trade and enjoying enviable prestige among fellow nurserymen and plant buyers. Doing a nice volume with satisfactory profits, which can easily be increased with more vigorous management.

Proprietor wishes to relinquish active management to younger, more energetic individuals who are stable and financially able to invest.

This is a going concern, now in full swing, beginning new season with large stock of choice plants. We are free from indebtedness or encumbrances. If you desire a secure future, have experience and ability and enjoy creative work, write, giving complete information as to experience, education, age, marital status, religion, etc., and amount of capital at your command, to Box 669, care of American Nurseryman.

### OPPORTUNITY

Profitable nursery business in one of the liveliest sections of the southwest, selling the year-around, mostly retail. Established over 20 years ago by present owner, propagating and growing choice ornamentals for the better garden trade. Profits very satisfactory; can easily be increased by aggressive management. Property consists of 20 acres; 2 sales locations, propagating house; 30,000 sq. feet of lath houses; abundance of shallow water for supplementary irrigation. Adequately staffed with excellent personnel. Membership in local, state and national trade organizations.

This is a first-class proposition. Sales records and income tax reports available for past decade; can stand closest investigation. Owner will sell outright or consider taking in one or more partners, qualified to take over active management.

If you have capital, executive ability, with knowledge of horticultural trade, it will be to your advantage to investigate. Write, giving information about yourself, in complete detail, and amount of capital you have to invest. You will then be contacted with fuller details of this business. Write Box 663, care of American Nurseryman.

#### FOR SALE

Landscaping and Tree Surgery business. Ill health forces me to dispose of planting material, spraying and tree equipment. A splendid business for a good tree surgeon, \$2000.00, or will sell home and acre of ground for \$20,000.00.  
T. A. BUTTERWORTH  
Los Gatos, Calif.

#### SITUATION WANTED

Experienced seedling propagator with 15 years' nursery experience desires to make change. Has had complete supervision of nursery and sales. References.  
Address Box 661, care of American Nurseryman.

#### WANTED

**WILL PAY \$75,000 CASH**

For landscape business or garden center, within commuting distance of New York city. State gross sales in answering.

Address Box 645, care American Nurseryman.

#### FOR SALE

Landscape and nursery business, well located in central Illinois on 4 good highways. Stock of all kinds. Had health and age are reasons to sell or trade for good income property. Doing a good business; about \$30,000.00 a year. Terms to the right party who wants to buy a good business. Address Box 665, care of American Nurseryman.

#### SITUATION WANTED

Married man, 41, twenty-two years' experience in general nursery work, and also experienced in handling men, desires position as foreman. Available for Spring season.

Address replies to Box 672, care of American Nurseryman.

#### FOR SALE

Camellia and Azalea nursery. We are growers, wholesalers, retailers. Less than 15 miles from Los Angeles.

Here is your opportunity to relocate at a time when we are on the brink of the Camellia selling season. Other interests prevent sufficient personal supervision. Will sell all or in parcels. Cheap rent, water, etc.  
Write Box 670, care of the American Nurseryman.

#### SITUATION WANTED

College graduate, nursery management major, desires position with retail or wholesale nursery. Growing experience with retail and wholesale nursery. Also experience with small landscape firm. Experience and future of first importance.

Address replies to Box 671, care of American Nurseryman.

#### FOR SALE

Opportunity knocks but once, they say. Here is a **LOUD KNOCK** for one or two young and vigorous men with ambition and ideas . . . to acquire half or whole interest in a prosperous **RHODE ISLAND** nursery corporation. 32 acres of varied stock; excellent cash and general sales record. Knowledge of plants and landscape design necessary. If you are at all interested, **DON'T PASS THIS UP**; it really is **GOOD**. Now is the time to buy in order to get full benefit of 1950 spring business. Full details upon request. Address Box 668, care of American Nurseryman.

#### FOR SALE

Nursery established 12 years. Complete equipment for propagating nursery stock. Excellent opportunity for young couple to conduct a wholesale as well as retail business. Ideal climate for relief of asthma and sinus trouble. \$12,500.00 will handle. For details write:

L. F. EHLERS  
Banning, Calif.

#### HELP WANTED

Position available for a man capable of estimating for and managing a landscape contracting concern which does large government work and often large jobs in New York city area. Person must be experienced in this particular phase of landscape contracting.

Since this position requires a man of experience and ability, an excellent salary will be paid. Applications will positively be treated confidentially.

Address Box 667, care of American Nurseryman.

**FOR SALE** — Nursery and Greenhouse. Large home, two rental houses, growing stock, nursery tractor and 1/2-ton truck. Had health reason for selling. Terms. Address replies to Box 673, care of American Nurseryman.

**OPENING** soon at 3353 Summer street, Memphis, Tenn., will be the Highland Heights Florist & Nursery Co.

**LAST** month Milton E. S. Reid sold Larimer Flower Gardens, Larimer, Pa., and moved to Weatherford, Tex., where he expects to open another nursery.



## MINNESOTA MEETING.

[Continued from page 12.]

of diseases and insect attacks, degree of dormancy and changes within the plant on the approach of cold weather.

Dr. Snyder went on to discuss the possibilities of the greater use of native shrubs and trees known to be hardy. Selection of variations and breeding with some of the less hardy eastern or foreign forms may result in superior plant materials to meet this problem. Dr. Snyder's paper will be published in a subsequent issue.

At the conclusion of Dr. Snyder's talk, Dr. W. H. Alderman, chief of the division of horticulture at the University of Minnesota, said that his division would gladly extend its work to the breeding and testing of ornamentals, but additional personnel, facilities and funds would be required, for the acquisition of which he bespoke the association's support.

## Banquet.

The evening banquet was a time for enjoyment. James I. E. Ilgenfritz, Monroe, Mich., president of the American Association of Nurserymen, was the only guest called upon to speak, and his remarks were brief. Witty stories and entertaining readings were provided by Milton Boock, principal of Lake City high school. A droll elderly magician was enjoyed. Hillbilly singers ended the program.

The arrangements committee, composed of Vernie Johnson, Gordon Bailey and Walter Niehaus, received much commendation for this affair, as well as for their other convention preparations.

Strawberries for dessert, of Hagerstrom's new patented everbearing variety, were provided by Hillcrest Gardens, Albert Lea.

## Group Insurance.

The morning session December 6 was opened by a description of the group hospital and medical insurance provided by the Blue Cross and Blue Shield, by their local representative, Gene Anderson. The association voted in favor of such a plan, and a committee was appointed to arrange it, the members being R. N. Ruedlinger, Gordon Bailey and Russell Zackariason.

## A. A. N. Activities.

Richard P. White, A. A. N. executive secretary, outlined briefly a number of the past year's and current activities of the national association. These included the Blue Star highway marker plantings, Norman J. Colman award, testing and introduc-

# Only PREMIER PEAT MOSS can give you Premier results

The Peat Moss  
with the "Growing Reputation"

**N**URSERYMEN who have tried many soil conditioners insist on Premier Peat Moss—because Premier gives them the results they want in soil conditioning, transplanting, propagating, mulching, liner beds.

Premier is not only pure, 97% organic sphagnum peat moss—it is **SUN-DRIED** to preserve its amazing ability to soak up as much as 20 times its weight in moisture. And that is the secret of Premier's superiority as an aid to healthy root growth.

Your customers will like Premier for the same reasons that nurserymen prefer it—and that means extra profits. Packaged in neat, well packed bales. Also 1-bu. and 3-bu. bags for repacking—to give you easy small-package sales! Write today for details.

No weed seeds—no insect life—no fungus. Average pH-4

Premier Peat Moss from all over the world—the peat moss you need—when you need it! Always top quality, Premier packed with the Premier Certified Seal—in large bales—available from many ports.

PREMIER PEAT MOSS CORPORATION  
535 Fifth Avenue, New York 17, N. Y.



**SUPER BALE**  
Veneer or all-burlap



**HANDY BALE**  
Veneer or all-burlap



**SPECIAL BALE**  
5-ply kraft paper



**JUNIOR BALE**  
5-ply kraft paper

Identified by the  
**BLUE BALE HEAD**  
with certified seal

\*Can Be Carried In Any Car

## BOOKS FOR NURSERYMEN FOR CHRISTMAS

Order from the lists on page 49  
of the November 15 and December 1 issues.

### AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.

*Don't get roped in...*

*...let us unsnarl your  
Rope and Nursery Twine Problems*

**GEO. B. CARPENTER & Co.**

440 NORTH WELLS ST.  
CHICAGO 54

## NURSEYRYMEN

It attracts—It brings in traffic!

Sells other items as well as **PLANT MARVEL!**

Builds Sales, Profits and Satisfied Customers.

# PLANT MARVEL

*"feed as you water"*

A leader in retail sales because in addition to high quality, it has EYE APPEAL. Beautiful new lithographed 1/2-lb. and 1-lb. containers. A nationally advertised product. Used and sold by leading Florists and progressive Nurserymen. Highest Analysis—12 per cent Nitrogen, 31 per cent Phos. Acid, 14 per cent Potash, plus minor elements and B1. All water soluble. Absolutely no colloidal residue.

Write today for complete details  
and **FREE Trial Size Package!**



### PLANT MARVEL LABORATORIES

12050 Parnell Ave.

Dept. AN-12

CHICAGO 28, ILL.

### PRINT YOUR OWN POST CARDS

COMPLETE OUTFIT  
only \$7.50

Amazing results in sales, inquiries and contacts... saves time and money... very easy to use. **GEM STENCIL DUPLICATOR** is ideal for Advertising, Announcements, Notices, Labels, Forms, Price Lists—hundreds of uses for every type of business and organization. Comes complete with all supplies, instructions and 60-page Book of Ideas.

Free Trial Offer: Try it before you buy it! Write and a **GEM OUTFIT** will be sent you postpaid. After 10 days, send only \$7.50 or return the GEM, no questions asked. The GEM must sell itself; you be the judge.

**BOND EQUIPMENT CO.** • Dept. 129  
6633 Enright • St. Louis 5, Mo.

SEND NO MONEY, FREE TRIAL OFFER

### FOR SALE

#### ROTOTILLER

Used less than 30 hours and good as new. Cost new, \$470.00; will sell for \$350.00.

**E. E. WATKINS**  
ROBINSON, KAN.

### TRUCK DECALS

Lettering and trade-mark reproductions made for your trucks, agent autos, etc. Easy to apply, distinctive uniform advertising, economical for small or large fleets.

Write for catalog.

**MATHEWS COMPANY**  
827 S. Harvey Ave. OAK PARK, ILL.

### PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25¢ per copy  
American Nurseryman Chicago

tion of new varieties of plants developed by the United States Department of Agriculture, woody plant register, proposed statistical survey of stock, action on increased freight rates, postal rate increases before Congress and the market development program under its new director.

Wayne Ferris, Hamburg, Ia., vice-president of the A. A. N., and James Ilgenfritz, president, urged further support of the national association. Out of forty-seven members of the Minnesota organization, only twenty-nine are now A. A. N. members.

The afternoon session was opened by A. G. Mereness, public relations director of the Minnesota farm bureau, who told of his interest in trees and concluded with an account of federal programs for the support of farm prices and a statement of opposition to the proposed Brannon plan.

### New Fruits.

Concluding the program as usual, Dr. W. H. Alderman spoke about the new fruits at the university farm. He announced by preliminary that the university trustees had just allotted \$21,800 for the renovation of facilities at the farm, according to the recommendations of the fruit growers' visiting committee, which this year was headed by Bj. Loss, Lake City nurseryman.

Beacon was the best money-maker among apples in Minnesota this year, asserted Dr. Alderman. Of new, unnamed apples, No. 978 and Minjon cover the Wealthy season, but few nurserymen yet have trees to offer. No. 974 is an early-fruited Macintosh and nearer its parent in appearance than any other of the offspring.

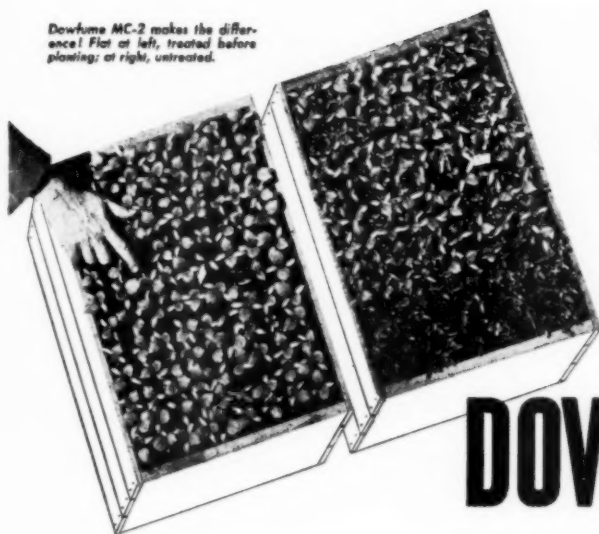
He was proud of two new hardy sour cherries, Nos. 58 and 66. The former is early, hardy enough to have yielded one-third of a crop in 1948, dark as Morello and the first large, quality sour cherry for Minnesota. No. 66 is late, a little more vigorous, probably hardier and light-colored like Montmorency. Both should be entirely hardy in the southern half of the state, but search is under way for a suitable hardy stock.

Dr. Alderman asserted that ten or twelve new apple varieties are coming along at the farm which are better than anything yet named by Minnesota, but they will not be ready for introduction for another ten years.

### Concluding Business.

A resolution requesting federal funds for research on oak wilt was adopted, upon presentation by E. D.

Dowfume MC-2 makes the difference! Flat at left, treated before planting; at right, untreated.



## Here's the Way to KILL WEED SEEDS and SOIL INSECTS

FUMIGATE PLANTING SOIL WITH

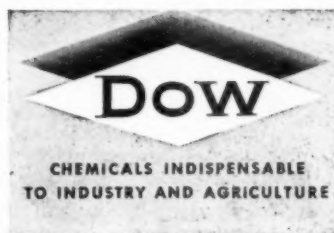
# DOWFUME MC-2

The picture tells the story! Seedlings grown in soil fumigated with Dowfume MC-2 before planting are more uniform, more vigorous because competition from weeds and soil parasites has been removed.

Growers are getting excellent results from the use of this new Dow soil fumigant—both with seedlings grown under glass and in the field.

It controls most weed and grass seeds, grass stolons, roots of perennial plants, nematodes, certain soil diseases and soil insects throughout the tilled layer of soil.

For a simple, effective, low-cost way to fumigate your plant beds before seeding, ask your Dow dealer for Dowfume MC-2.



THE DOW CHEMICAL COMPANY

MIDLAND, MICHIGAN

Johnson, for the resolutions committee.

W. A. Coupanger was commended for his work on the membership by President Ken Law, who praised the efficiency of this year's committees generally.

The public relations committee, newly appointed a year ago, had much to offer. Kimball Andrews, chairman, suggested closer cooperation with the Minnesota Horticultural Society in advertising and editorial contributions to its magazine, the Minnesota Horticulturist. He further suggested contact with the newspapers in the Twin Cities, cooperation with farm and civic organizations and talks with and without slides before various organizations. The extent of such public relations activities depended upon the funds to be allotted. This was to be taken up at a meeting of the board of directors after adjournment of the convention.

#### Convention Notes.

At a meeting of the Minnesota A. A. N. chapter, after luncheon December 6, Harold Reid was reelected a delegate to the board of governors and Ken Law was chosen as the second delegate. Officers of the chapter are the same as those reelected to

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head the Minnesota State Nurserymen's Association.

Dick Widmer, who came from New Jersey the past summer to become instructor in floriculture at the University of Minnesota, was introduced to the association by Dr. Alderman.

Three exhibits were in the mezzanine lobby. A machine to clean pulpy seeds by a rotating disk in a deep drum is a new offering of Dybvig's Nursery, Colton, S. D. The Ross root feeder was shown by Mrs. Ross Daniels, Des Moines, Ia. A sample length of Stout's sprinkler system was displayed by Dave Hvistendahl, Green Thumb Nursery, Worthington, Minn.

Not content to take the night train from St. Paul to Milwaukee to attend the meeting of the Wisconsin Nurserymen's Association opening December 7, a party of five men in a hurry took an airplane at 5:55 p. m. intending to arrive at Milwaukee about 7:30 that evening. Fog prevented their landing at Milwaukee and they were carried on to Chicago. There they were taken to the Northwestern railroad station and presented railroad tickets on the 10 p. m. train. While in the station, W. J. Smart, versed in transportation routine, telephoned the Hotel Schroeder, at Milwaukee, to make sure rooms were held for the party's late arrival. He was told all reservations of nonarrivals had been canceled, Milwaukee hotels were sold out for that night and to seek accommodations at Chicago. The Hotel La Salle found the travelers rooms. They arose early, took the 7:30 a. m. train, to arrive at Milwaukee at 9 a. m., there being greeted with considerable derision by those nurserymen who earlier had arrived on the overnight train from the Twin Cities. In the party with Bill Smart were James Ilgenfritz, A. A. N. president, and R. P. White, A. A. N. secretary; A. W. (Dick) Krieger, president of

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the Michigan Association of Nurserymen, and F. R. Kilner, the writer of these notes. If they reconstruct their January program of convention

attendance to include fewer meetings than planned, it will be due to a resolution to travel less hurriedly and more certainly.



**YEW IN NURSERIES.**

[Continued from page 14.]

in shade. If grown in full sunshine, it is quite compact.

Brown's yew, *T. media browni*, is a graceful, rare, shaped form of Japanese yew of rather recent development. It is of a deep green color and grows rapidly.

Anderson's yew, *T. media andersoni*, is extensively grown in the eastern states. It is a little loose and open-topped unless cut back and sheared to keep the top compact.

There are at least seven distinct species of taxus and numerous varieties. One nurseryman lists more than forty forms, including some hybrids. Thus it is seen that the yews are numerous and somewhat diversified, but no one person can know them all without labels and stakes. The group is a fascinating one, and its value is increasing.

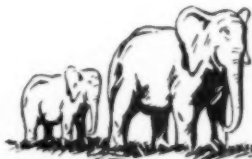
**Other Features.**

The color effects of good yews are unexcelled. The yew is good all year and is much prized in winter for its elegant foliage and colored fruits. The pistillate parts are colorful in the fall, when the fruit becomes matelike, with dark seeds resting in the bottom of a berrylike red cup. There are two kinds of catkins. The name taxus is from the Greek word meaning bow, since the wood was used for bows because of its fine-grained plastic nature. The yew has been called the aristocrat of low-growing evergreens on account of its rich color and texture, well displayed on the new growth.

The propagation of yews is easy. New plants can be secured by the use of cuttings, by seeds of half-ripened ovules or by grafting. New plants from cuttings grow slowly. Seeds do not germinate until the second year. In any case, it takes several years to grow sizable stock for sale.

Yews are useful plants for hedges, for park plantings, for borders and even for specimen plants in conspicuous places. They were once used extensively in topiary work to create fantastic forms and shapes, for yews respond well to pruning for desired shapes and sizes. For window boxes and foundation plantings there are no better plants.

Potted plants are becoming popular, especially for lining-out stock. The specimens are 1 or 2-year-old plants grown in 2½-inch pots. These are most desirable for small specimens, as they have been handled and their roots are compact. Furthermore, only good specimens are used for potting. Several varieties are used in this practice, including cliff-



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toni, hicksi, andersoni, henryi, re-panda, browni, hunnewelliana and other upright and spreading cuspidatas. It appears that potted plants do well. But some people prefer 3 or 4-year-old plants from open beds, and if the plants possess good roots, they will give satisfaction. Rooted cuttings are also offered to the trade. They are seldom used, however, for direct planting out. It appears that any species will root under good conditions, but some firms make a specialty of rooting cuttings and will do the job for others.

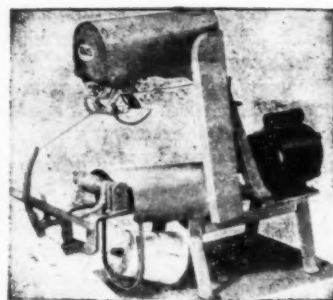
### Pests of Yews.

In general, the yews are healthy plants, being more nearly free of insect pests and diseases than most evergreens, and this is an asset of importance in recent years. But there are occasional troubles. The worst pest is the black vine weevil, whose larvae, the worm stage of the creature, feed on the roots, causing debility or eventual death of the plant. In the case of infestation, the top of the plant turns yellow and then brown. Severely injured plants will die. Suspicious symptoms should prompt one to inspect the roots. If the insects are found, one may apply arsenate of lead, three pounds to 100 square feet, working it into the soil. A pyrethrum extract in solution is also effective for a few trees and is convenient to use. The adult beetles hide by day, but work at night on the foliage and can be controlled by arsenate of lead sprays. DDT may work.

### New Points.

The winter and summer of 1949 have shown two additional points of merit of taxus. The species withstands winter conditions well and tolerates summer drought and heat. These two points of merit serve to place the yews ahead of most other evergreens. In 1949 in New England, when most evergreens were checked in growth, the yews did well, forming much new growth despite adverse weather.

Then, too, the yews are resourceful and can renew side branches that are injured and lost. This is due to their ability to replace lateral branches and fill out gaps and open places in the sides of a tree, a feat that most evergreens are unable to perform, so that the shape and beauty of the tree are restored and amends are made to recover from damages once thought to be fatal to the value of the tree. So in all consideration, the taxus ranks high among the evergreens and should be more generally planted.



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## PLANT NOTES.

[Continued from page 19.]

a dozen times and have had the real thing just once, to my present recollection. All this leads to utter confusion and ultimate discouragement, and there is little reason for the confusion, as I shall try to point out in the following note.

For instance, none of the imposters that has come my way has the narrow, glossy foliage in tufts, like a small pink; certainly, none has the downy wine-colored stems, wandering along the ground for a few inches, suddenly upturning and opening out one, sometimes two, enormous rose-pink, ragged catchfly flowers. The spectacular performance usually commences here in May and continues into June; farther south it is said to occur in April, and in the Alps, where it inhabits high limestone cliffs, the glorious event is said to come in July. Whenever it occurs, it is something to remember. When one has a catchfly answering that description, he has the elusive *S. elizabethae* or *Melandrium* (*Melandrium*, as some have it) *elizabethae*.

When one finds it, there should be little trouble in keeping it going for five or six years, provided it is given deep, light, rich soil filled with limestone chips and, in this section at least, about half shade. But it is well to remember that it is not to be depended upon to keep going indefinitely; so one should be prepared with replacements every fourth or fifth year. Since seeds are freely produced and they germinate like ordinary catchflies, it is not much trouble to keep it going after one has found the correct material. I venture the opinion that it would sell well in the neighborhood nursery where rock gardeners are on the prowl.

## Sweet Woodruff.

A large planting of sweet woodruff, *Asperula odorata*, used as a carpet under a group of apple trees, which I saw and greatly admired last spring, prompts a few words in its praise. No doubt it has been mentioned here before, because it is one of my favorites of the shade lovers, but if another mention will be the means of bringing it to the attention of even one large planter, the effort and the space will not have been used in vain.

No one knows better than I what a handicap from a business standpoint it is to have an absorbing love for the old varieties, especially if that affection is aroused mostly because they are merely old. That is one reason some plantmen, including this

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one, never make much money from their labor in the plant field. But there is a certain satisfaction that comes to us which the money-maker will never know; so we are contented. But once in a while we find an old plant that makes us money, and that is double contentment. Woodruff is one of the latter.

The first reference I have found to the plant is in a Saxon leechbook of 1,000 A.D., where it is referred to as wuderofe. German references to it begin to appear about the middle of the thirteenth century, and, by another half century, we find it has reached England, or at least it has begun to attract the attention there of the chroniclers of that time. Although it appears to have made little impression on the medical herbalists of that time, it was used in England at least in an ointment called herb walter, which was later contracted to herb water. Later we find Culpepper, in his British Herbal, saying that "It is nourishing and restorative, good for weak consumptive people; it opens obstructions of the liver and spleen, and it is said to be a provocative to venery." But its greatest use was as a strewing herb, because when its leaves are crushed, as when walked on, it gives off the pleasant aroma of new-mown hay.

We are not likely to want it now to strew on church floors, and maidens have long since given up the practice of carrying it in their hands so the body warmth would release its perfume. But knowing gardeners still adore it, not only for its odor, but also "for the sake of its tumbling masses of white blooms." It has the added recommendation of making itself at home in almost any lightly shaded spot, clothing the ground with its fine leaves, in whorls of eight, and creating a low, billowing whiteness in May, about eight inches tall. It comes readily from seeds and may also be increased by division of the clumps.

## BURLAP BAG TAX VOIDED BY ALABAMA COURT.

In an opinion reversing itself, the Alabama Supreme court ruled December 1 that burlap bags used by nurseries are exempt from the state sales tax.

Previously the high state tribunal had held them taxable, but changed its stand on rehearing of a suit involving the Wertheimer Bag Co., Birmingham. B. J.

THE address of the South Side Floral Shop, a new store, is 1025 Pittston avenue, Scranton, Pa.



## AUTUMN FOLIAGES.

Each of the four seasons of the year has its own peculiar features that charm the gardener. However, spring and autumn give greatest exhilaration—spring with its parade of blooms of many colors, shapes and fragrances; autumn with its masses and garlands of lustrous berries and fruits and with its grand spectacle of mellowing leaves which illumine the landscape with intense scarlet and reds and glittering yellows.

In planning a landscape planting, it is well to give thought to inclusion of a few shrubs or trees which will bring a stirring distinctive beauty to the scene in late September and in October. One or two patches of bright foliage perform a keen service in enlivening the grounds while the growing season comes gradually to a halt. Some suggestions for the northernmost states and Canada were given recently by W. R. Leslie, superintendent of the Dominion experimental station at Morden, Man.

Reds are the most arresting of the fall colors, but are most effective when combined with contrasting goldens and yellows. Patches of greenery in the background enhance all these more eye-catching colors. Fortunately, there is a wealth of adapted materials to choose from when working out color masses which are harmonious in association.

Amur River maple is outstanding among large shrubs. There is some diversity in shades, but nurserymen are selecting strains which can be depended upon, each autumn, to put on a striking show of scarlet to red. Although hardy, the Amur River maple may be unthrifty when planted on soil which is heavily laden with lime. Its Oriental cousin, the Tatarian maple, is larger and coarser in every part, but is distinguished most easily by autumn foliage which is yellowish to brown, but not red.

The most vivid red on small shrubs is found on the Japanese barberry. Its attraction is enhanced by being gemmed with numerous small red fruits, which are long retained. Other barberries which are arrayed in bright red autumn raiment include the Cut-leaf, Truchedge Columnberry and Poirret barberries.

Red autumn foliage is notable on the following natives: Pin cherry, nannyberry, smooth sumac, prairie rose, sand cherry, Bartram serviceberry, pembina, or American cranberry bush; shining rose, saskatoon, some dogwoods, Virginia creeper and blueberry.

Imported subjects carrying red  
[Concluded on page 58.]

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## ANNUAL INDEX TO CONTENTS

VOLUME LXXXIX—January 1 through June 15, 1949

First figure is issue number; figure after colon is page.

## GENERAL

|                                                     |                                                  |
|-----------------------------------------------------|--------------------------------------------------|
| Agriculture, Establishes Nurseries as.....          | 6:6                                              |
| All-America Flowers and Vegetables, 1949.....       | 1:58                                             |
| All-America Rose Selections, 1950.....              | 12:28                                            |
| Azalea-Camellia Center at Semmes, Ala.....          | 2:43                                             |
| Azaleas for Northern Gardens.....                   | 10:7                                             |
| Berberis.....                                       | 6:24                                             |
| Boxwood.....                                        | 6:38                                             |
| Camellia Berenice Boddy.....                        | 8:43                                             |
| Cottonwood, The Yellow.....                         | 2:8                                              |
| Digger, Devises Tree.....                           | 8:54                                             |
| Drainage, Tile.....                                 | 8:38                                             |
| Elms, Disease-resistant.....                        | 5:30; 11:23                                      |
| Evergreens for Low Edgings.....                     | 6:20                                             |
| Feeding Plants, Use of Leaf Analysis in.....        | 4:47                                             |
| Foundation Plantings.....                           | 8:58                                             |
| Fungicides Classified.....                          | 4:49                                             |
| Fungicides, Organic.....                            | 10:39                                            |
| Hoe, Power.....                                     | 8:54                                             |
| Holly, New.....                                     | 5:58                                             |
| Industrialization in Practice, 6:7; 7:9; 8:10; 9:13 |                                                  |
| Juniper.....                                        | 6:24                                             |
| Lath House, Woodless.....                           | 2:12                                             |
| Lilacs in California.....                           | 10:6                                             |
| Loader, Tractor-towed.....                          | 10:50                                            |
| Machinery and Tools, Nursery.....                   | 2:9                                              |
| Magnolia Patented, New.....                         | 5:56                                             |
| Mist Blowers.....                                   | 9:55                                             |
| Notes from a Nurseryman's Wife.....                 | 2:56                                             |
| Nurseries in South Africa.....                      | 9:14                                             |
| Oak Leaf Phyllotaxis.....                           | 10:11                                            |
| Planter Shown, New Bulb.....                        | 8:54                                             |
| Plant Patents, New, 1:37; 4:35; 7:50; 9:31; 10:29   |                                                  |
| Plants, A. A. N. Registration of New Woody.....     | 5:30; 10:24                                      |
| Plants Landscape Architects Prefer.....             | 7:8                                              |
| Plants, Red-foliage.....                            | 10:18                                            |
| Plants, Trends in Rare.....                         | 2:7                                              |
| Plants, Unusual Woody.....                          | 9:50                                             |
| Preservative, Plastic.....                          | 8:54                                             |
| Rhododendrons, Production of Hybrid.....            | 9:7; 10:11; 11:11; 12:9                          |
| Seed Cleaning, A Method of.....                     | 8:7                                              |
| Soil Aeration in Tree Growth.....                   | 4:14                                             |
| Storage of B&B Evergreens, Winter.....              | 8:46                                             |
| Strawberry Variety Released, New.....               | 2:42                                             |
| Tax Cut for Tree Damage.....                        | 6:58                                             |
| Tax, Oklahoma Growing Stock Exempt from 10:49       |                                                  |
| Tax to Nursery Stock, Apply Maryland Sales.....     | 12:23                                            |
| This Business of Ours.....                          | 1:40; 2:32; 4:40; 6:38; 7:24; 8:24; 10:18; 11:24 |
| Trade-marks, The Use of.....                        | 7:24                                             |
| Transplanting Practices.....                        | 10:44                                            |
| Transplanting, Tree.....                            | 4:46                                             |
| 2-4-D for Weeding Strawberries.....                 | 11:50                                            |
| 2-4-D, Tree Damage by.....                          | 8:59                                             |
| Wistarias.....                                      | 4:40; 11:40                                      |

## COVER ILLUSTRATIONS

|                                       |       |
|---------------------------------------|-------|
| Albizia Julibrissin.....              | 1:50  |
| Daphne Genkwa.....                    | 9:9   |
| Diospyros Virginiana.....             | 8:40  |
| Exochorda Rameosa.....                | 5:34  |
| Gleditsia Triacanthos Inermis.....    | 12:26 |
| Hypericum Moserianum.....             | 4:34  |
| Lagerstroemia Indica.....             | 7:48  |
| Lonicera Tatarica.....                | 6:40  |
| Magnolia Salata Rosea.....            | 8:10  |
| Quercus Alba.....                     | 11:25 |
| Rhododendron Roseum.....              | 10:13 |
| Robinia Pseudacacia Umbraclifera..... | 2:39  |

## PLANTS

|                             |                  |
|-----------------------------|------------------|
| Achillea.....               | 4:41             |
| Aconitum.....               | 1:16             |
| Aethionema.....             | 4:42; 10:14      |
| Allium.....                 | 11:16            |
| Alpines, Notes on Some..... | 12:12            |
| Androstaphylos.....         | 4:23             |
| Anemone.....                | 10:14; 11:14     |
| Aquilegia.....              | 8:18             |
| Armeria.....                | 4:20             |
| Asclepias.....              | 9:20             |
| Asperula.....               | 10:14            |
| Campanula.....              | 4:42; 11:14      |
| Centaurium.....             | 4:43             |
| Chrysanthemum.....          | 2:41; 9:23; 9:53 |
| Chrysopsis.....             | 2:61             |
| Chrysanthus.....            | 7:14             |
| Cordieria.....              | 9:20             |
| Cyclamen.....               | 7:14             |
| Dianthus.....               | 9:22             |
| Dodecatheon.....            | 5:20             |
| Eryngium.....               | 1:16             |
| Gallium.....                | 3:43             |
| Geranium.....               | 2:13             |
| Geum.....                   | 0:20             |
| Gypsophila.....             | 4:24             |
| Hedera.....                 | 6:22             |
| Helianthus.....             | 1:20             |
| Hemerocallis.....           | 8:60             |
| Hippocrepis.....            | 5:22             |
| Hypericum.....              | 1:65             |
| Iberis.....                 | 6:20             |
| Iris.....                   | 10:20            |
| Lavandula.....              | 5:22             |
| Lilium.....                 | 4:25             |
| Mimulus.....                | 8:21             |
| Nepeta.....                 | 2:18             |

|                                 |                                                       |
|---------------------------------|-------------------------------------------------------|
| Pachysandra.....                | 6:22                                                  |
| Phlox.....                      | 2:61                                                  |
| Pinguicula.....                 | 2:13                                                  |
| Plant Notes Here and There..... | 1:16; 2:13; 3:62; 4:20; 5:20; 7:14; 8:18; 9:20; 10:14 |
| Polygonum.....                  | 9:21                                                  |
| Primula.....                    | 3:62                                                  |
| Rumex.....                      | 7:18                                                  |
| Scilla.....                     | 8:22                                                  |
| Sedum.....                      | 3:62                                                  |
| Sempervivum.....                | 4:24                                                  |
| Silene.....                     | 2:13                                                  |
| Stenanthium.....                | 2:62                                                  |
| Teucrium.....                   | 6:20                                                  |
| Thalictrum.....                 | 10:16                                                 |
| Viola.....                      | 7:15                                                  |
| Zerophyllum.....                | 8:62                                                  |

## INSECT AND DISEASE CONTROL

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| Apple Tree Problems in the Nursery.....         | 7:7                      |
| Bagworm Control.....                            | 8:8                      |
| Elm Pests, Control of.....                      | 10:43                    |
| Gladiolus Thrips.....                           | 8:6                      |
| Mildew of Magnolias.....                        | 10:35                    |
| Oak Wilt, The Silence of.....                   | 2:11                     |
| Peach Tree Troubles with.....                   | 8:9                      |
| Phloem Necrosis of Elm, Spray Formulas for..... | 1:42                     |
| Pine Rust Forecast.....                         | 8:53                     |
| Pin Oak Sawfly.....                             | 9:45                     |
| Quarantines.....                                | 7:32; 9:30; 10:10; 11:21 |
| Rough Bark Disease of Pittosporum Tobira.....   | 8:47                     |

## AUTHORS

|                                                          |                                                        |
|----------------------------------------------------------|--------------------------------------------------------|
| Bergh, Thor K.—A Method of Seed Cleaning.....            | 8:7                                                    |
| Bush, Donald W.—Plants Landscape Architects Prefer.....  | 7:8                                                    |
| Cummings, M. B.—Apple Tree Problems in the Nursery.....  | 7:7                                                    |
| —Troubles with Peach Trees.....                          | 8:9                                                    |
| Galle, F. C., and Nank, E. E.—Oak Leaf Patterns.....     | 6:11                                                   |
| Hemming, E. Sam—This Business of Ours.....               | 1:40; 2:32; 4:40; 6:38; 7:24; 10:18; 11:24             |
| Hetz, Charles W.—Industrialization in Practice.....      | 6:7; 7:9; 8:10; 9:13                                   |
| Hilling, T.—Nurseries in South Africa.....               | 9:14                                                   |
| Holman, Henry J.—Trends in Rare Plants.....              | 2:7                                                    |
| Kern, Carl E., Jr.—Nursery Machinery and Tools.....      | 2:9                                                    |
| Nank, E. E., and Galle, F. C.—Oak Leaf Patterns.....     | 6:11                                                   |
| Riker, A. J.—The Killing Weeds with Mineral Spirits..... | 7:11                                                   |
| Wells, James S.—Production of Hybrid Rhododendrons.....  | 9:7; 10:11; 11:11; 12:9                                |
| Wood, C. W.—Plant Notes Here and There.....              | 2:13; 3:62; 4:20; 5:20; 7:14; 8:18; 9:20; 10:14; 11:14 |
| —August Can Be Colorful.....                             | 1:16                                                   |
| —Evergreens for Low Edgings.....                         | 6:20                                                   |
| —Notes on Some Alpines.....                              | 12:12                                                  |
| Wyman, Donald—Azaleas for Northern Gardens.....          | 10:7                                                   |

## MEETINGS

|                                                         |       |
|---------------------------------------------------------|-------|
| Akron Landscape Guild.....                              | 6:31  |
| Association of Horticulturalists in Industry.....       | 6:32  |
| California Association of Nurserymen.....               | 3:42  |
| —Central California Chapter.....                        | 11:30 |
| California Bulb Growers' Association.....               | 7:10  |
| Canadian Association of Nurserymen.....                 | 10:10 |
| Central Michigan Landscape and Nursery Association..... | 6:47  |
| Colorado Nurserymen's Association.....                  | 4:26  |
| Columbus Landscape Association.....                     | 3:13  |
| Connecticut Nurserymen's Association.....               | 12:7  |
| Florida Association of Nurserymen.....                  | 4:20  |
| Idaho Association of Nurserymen.....                    | 3:7   |
| Illinois State Nurserymen's Association.....            | 5:34  |
| Indiana Arborists' Association.....                     | 3:16  |
| Indiana Association of Nurserymen.....                  | 6:36  |
| Indiana Greater Horticultural Association.....          | 6:36  |
| Indianapolis Landscape and Nursery Association.....     | 6:36  |
| Iowa Nurserymen's Association.....                      | 3:14  |
| Kansas Association of Nurserymen.....                   | 4:26  |
| Kansas City Association of Nurserymen.....              | 12:10 |
| Kentucky Nurserymen's Association.....                  | 4:15  |
| Louisiana State Horticultural Association.....          | 12:24 |
| Louisville Retail Nurserymen's Association.....         | 1:10  |
| Maryland Nurserymen's Association.....                  | 3:15  |
| Massachusetts Nurserymen's Association.....             | 4:10  |
| Michigan Association of Nurserymen.....                 | 4:11  |
| Midwestern Shade Tree Conference.....                   | 6:9   |
| Minnesota State Nurserymen's Association.....           | 1:7   |
| Missouri State Nurserymen's Association.....            | 3:30  |
| Nebraska Association of Nurserymen.....                 | 3:34  |
| New England Nurserymen's Association.....               | 5:7   |
| New Jersey Association of Nurserymen.....               | 5:8   |
| New York State Nurserymen's Association.....            | 8:11  |
| North Carolina Nurserymen's Association.....            | 7:35  |
| Ohio Nurserymen's Association.....                      | 4:7   |
| Oklahoma City Retail Nurserymen's Association.....      | 7:30  |
| Oklahoma State Nurserymen's Association.....            | 4:13  |
| Pennsylvania Nurserymen's Association.....              | 5:9   |
| Plains Nurserymen's Association.....                    | 12:8  |
| Rhode Island Nurserymen's Association.....              | 6:30  |

|                                                          |            |
|----------------------------------------------------------|------------|
| Saginaw Valley Nurserymen's Association.....             | 7:51       |
| Southern California Society of Landscape Architects..... | 7:57       |
| Tennessee State Nurserymen's Association.....            | 5:34       |
| West Florida Florists' and Nurserymen's Association..... | 10:10      |
| Western Association of Nurserymen.....                   | 3:13       |
| Western New York Nurserymen's Association.....           | 5:36       |
| Western Pennsylvania Nurserymen's Association.....       | 1:11; 4:26 |
| Wisconsin Nurserymen's Association.....                  | 1:9        |
| Wisconsin Society of Landscape Architects.....           | 6:51       |

## BOOK REVIEWS

|                                                        |                  |
|--------------------------------------------------------|------------------|
| ABC of Orchid Growing.....                             | 1:46             |
| American Rose Annual.....                              | 12:16            |
| Around the Seasons in Denver Parks and Gardens.....    | 8:30             |
| Belle, Liberty Hyde.....                               | 7:42             |
| Bulletins Received.....                                | 1:48; 7:46; 8:34 |
| Camellias Illustrated.....                             | 1:14             |
| Chemistry and Uses of Insecticides.....                | 1:47             |
| Fairchild Tropical Garden, The First Ten Years.....    | 1:45             |
| Fairchild Flowers in Color.....                        | 8:28             |
| Fig, The.....                                          | 1:45             |
| Garden Flowers.....                                    | 8:28             |
| Gardens in the Modern Landscape.....                   | 7:42             |
| Home Book of Trees and Shrubs, The.....                | 9:32             |
| Horticultural Standards, A. A. N.....                  | 7:20             |
| Introgressive Hybridization.....                       | 8:32             |
| Kansas Wild Flowers.....                               | 8:30             |
| Memoirs of a Rose Man.....                             | 9:32             |
| North American Lily Society Yearbook.....              | 1:46             |
| Ornamental Cherries.....                               | 7:45             |
| Gardening Guide.....                                   | 7:44             |
| Pest Control Guide.....                                | 8:54             |
| Plant Ecology.....                                     | 8:33             |
| Proceedings of the National Shade Tree Conference..... | 8:34             |
| Propagation of Trees, Shrubs and Conifers.....         | 1:44             |
| Roses for Southern Gardens.....                        | 7:44             |
| Roses for American Gardens.....                        | 12:16            |
| Shrubs for the Milder Counties.....                    | 7:45             |
| Stone Mulching in the Garden.....                      | 8:31             |
| The Encyclopedia of Gardening.....                     | 1:44             |
| Through the Arnold Arboretum.....                      | 12:17            |
| Trees of Santa Barbara.....                            | 8:28             |
| Vernalization and Photoperiodism.....                  | 8:33             |
| You Can Landscape Your Own Home.....                   | 9:32             |

## BIOGRAPHICAL PORTRAITS

|                        |       |
|------------------------|-------|
| Beam, Ray.....         | 11:29 |
| Benner, Robert.....    | 3:18  |
| Bunch, John C.....     | 3:16  |
| Clarke, Walter B.....  | 8:18  |
| Clayton, Roy F.....    | 8:7   |
| Dalsimer, Allan F..... | 3:12  |
| Noble, Fred J.....     | 11:8  |
| Pippert, R. C.....     | 1:9   |
| Potter, B. L.....      | 6:8   |
| Reck, James F.....     | 7:40  |
| Truby, Walter W.....   | 1:12  |
| Welch, Warren F.....   | 4:13  |
| Wysong, Noel B.....    | 6:9   |

## OBITUARIES

|                                    |       |
|------------------------------------|-------|
| Allen, William F.....              | 8:36  |
| Ames, Chauncey E.....              | 6:14  |
| Armstrong, Mrs. John S.....        | 2:35  |
| Aterburn, Burton H.....            | 7:40  |
| Baird, John H.....                 | 3:26  |
| Baker, John Truitt.....            | 2:33  |
| Bender, Henry.....                 | 8:36  |
| Benta, William A.....              | 4:28  |
| Bradley, Floyd.....                | 10:50 |
| Breckenridge, James M., Jr.....    | 4:29  |
| Bryan, John D.....                 | 10:50 |
| Cornelius, Frank S., Sr.....       | 6:14  |
| Diederichsen, Anton.....           | 4:29  |
| Essig, Robert W.....               | 2:33  |
| Gray, Augustus Tillman.....        | 8:28  |
| Gerry, Davenport.....              | 5:28  |
| Gunstone, Fred.....                | 7:40  |
| Hoever, C. L.....                  | 5:28  |
| Hopkins, Ernest L.....             | 7:41  |
| Howard, Charles W.....             | 1:38  |
| Hundertmark, M. and Mrs. W. L..... | 6:14  |
| Hyde, Henry Alvin.....             | 6:14  |
| Kelly, Henry.....                  | 3:26  |
| Kemp, Nelson J.....                | 5:28  |
| Kitzrow, Arthur E.....             | 7:40  |
| Koons, F. M.....                   | 11:35 |
| Krause, William J.....             | 8:36  |
| LaPointe, Frank A.....             | 1:39  |
| Lewis, Lonnie.....                 | 1:39  |
| MacKenzie, Malcolm C.....          | 9:10  |
| Marshall, Austin C.....            | 7:40  |
| Pancake, Fred.....                 | 5:28  |
| Pemb, James K.....                 | 8:36  |
| Schenewerk, S. C.....              | 1:39  |
| Tippl, Martin L.....               | 5:28  |
| Tyler, A. C. P.....                | 4:28  |
| Vandereem, Anton.....              | 8:36  |
| Verlende, Albert J.....            | 6:14  |
| Wirth, Theodore.....               | 5:28  |
| Zeller, Dr. S. M.....              | 1:38  |

## ANNUAL INDEX TO CONTENTS

VOLUME XC—July 1 through December 15, 1949

First figure is issue number; figure after colon is page.

## GENERAL

|                                         |       |
|-----------------------------------------|-------|
| Billboards at the Nursery               | 8:9   |
| Chestnuts, New Chinese                  | 9:66  |
| Cleyera japonica                        | 2:102 |
| Cypress, The Bald                       | 7:34  |
| Digger, Develops Bulb                   | 4:34  |
| Digger, Giant Tree                      | 11:14 |
| Eriosema Plants from Seeds              | 8:42  |
| Eriosema Plants, Seedling Growth of     | 4:7   |
| Eumyrmus for Hedging, New               | 12:12 |
| Evaluation, Shade Tree                  | 11:62 |
| Foundation Plantings, Improved          | 9:7   |
| Foundation Plantings, Texture In        | 10:9  |
| Fruit Varieties Survey                  | 2:54  |
| Hardiness of Some Shrubs                | 12:7  |
| Holly Seeds Studied, American           | 2:126 |
| Honey Locust as a Shade and Lawn Tree   | 10:24 |
| Hydrangea Petiolaris                    | 8:41  |
| Labeling Devices                        | 4:22  |
| Locusts, Rot-resistant                  | 10:66 |
| Magnolias from Stem Cuttings            | 10:7  |
| Maple Leaf Patterns                     | 2:13  |
| Notes from a Nurseryman's Wife          | 2:107 |
| Oak Wilt in Midwest, Rapid Spread of    | 10:14 |
| Operating the General Retail Nursery    | 11:56 |
| Osmanthus, Varieties of                 | 10:13 |
| Peaches for Southeast                   | 10:42 |
| Peach Spindlewood                       | 10:42 |
| Plant Patents, New                      | 8:32  |
| Plants, A. N. Registration of New Woody | 4:12  |
| Plants for Seashore Planting            | 2:9   |
| Propagation, Modern Methods of Plant    | 11:8  |
| Public Relations for the Nurseryman     | 8:11  |
| Replant, Deer                           | 8:49  |
| Rhododendrons and Azaleas, Modern       | 9:9   |
| Rhododendrons, Production of Hybrid     | 1:11  |
| Rooting of Evergreen Cuttings, Study    | 2:104 |
| Saleyards, Modern                       | 9:22  |
| Sawdust pit Values                      | 10:43 |
| Selling Landscape Plantings             | 4:13  |
| Shagbarks, Two New                      | 2:18  |
| Soil Practices, Need for                | 8:13  |
| Sphagnum Moss, Growing Plants in        | 9:36  |
| Sprayers, Self-propelled                | 1:12  |
| Strawberry, Redcrop                     | 8:40  |
| This Business of Ours                   | 2:86  |
| Tractor, Mile-a-day                     | 5:54  |
| Training Program for Nursery Personnel  | 6:14  |
| Viburnum Leaf Patterns                  | 9:10  |
| Viburnums of Variable Variety           | 2:27  |
| Vines in Home Plantings, Use            | 11:7  |
| Weed Control for Conifer Beds, Chemical | 10:62 |
| Yews for Nurseries and Gardens          | 12:13 |

## COVER ILLUSTRATIONS

|                                |       |
|--------------------------------|-------|
| Hydrangea Sargentiana          | 1:6   |
| Picea Glauca Densata           | 12:26 |
| Schizophragma Hydrangeoides    | 5:28  |
| Spiraea Nipponica Rotundifolia | 7:37  |
| Stewartia Malacodendron        | 4:10  |
| Tilia occidentalis Woodwardii  | 10:38 |
| Tilia Petiolaris               | 3:64  |
| Tilia Platyphyllos             | 6:46  |
| Ulmus Glabra Camperdownii      | 8:41  |
| Viburnum Macrocephalum Sterile | 9:26  |
| Viburnum Opulus Nanum          | 11:8  |

## PLANTS

|                             |       |
|-----------------------------|-------|
| Aconitum                    | 10:20 |
| Alpines, More Notes on Some | 1:14  |
| Aspidistra                  | 6:28  |
| Anemone                     | 6:28  |
| Anemone                     | 8:21  |
| Aquilegia                   | 8:18  |
| Aster                       | 7:28  |
| Begonia                     | 10:22 |
| Bonninghausenia             | 9:18  |
| Candamine                   | 9:58  |
| Clintonia                   | 10:18 |
| Croens                      | 6:31  |
| Cumula                      | 12:19 |
| Dianthus                    | 3:68  |
| Doronicum                   | 3:67  |
| Eriogon                     | 10:61 |
| Empetrium                   | 10:61 |
| Gentiana                    | 9:18  |
| Hedera                      | 12:18 |
| Helichrysum                 | 8:58  |
| Hesperis                    | 8:31  |
| Hydrangea                   | 3:57  |
| Hypericum                   | 6:28  |
| Hyssop                      | 8:22  |
| Levadia                     | 4:13  |
| Linum                       | 1:18  |
| Mimulus                     | 4:15  |
| Monarda                     | 2:28  |
| Omphalodes                  | 11:54 |
| Pentstemon                  | 2:32  |
| Phlox                       | 7:29  |
| Plant Notes Here and There  | 4:15  |
| Primula                     | 5:16  |
| Pulmonaria                  | 8:18  |
| Saxifraga                   | 3:29  |
| Secum                       | 6:30  |
| Sphacelata                  | 8:20  |
| Spiranthes                  | 9:58  |
| Statice                     | 10:18 |
| Thysanotum                  | 8:18  |

|            |      |
|------------|------|
| Thermopsis | 8:19 |
| Veronica   | 2:34 |

## INSECT AND DISEASE CONTROL

|                                            |       |
|--------------------------------------------|-------|
| Achoritae Weevil                           | 10:64 |
| Azalea and Camellia Flower Spot Diseases   | 2:32  |
| Chamaecyparis Rot                          | 9:46  |
| Chlorosis in Azaleas                       | 5:9   |
| Insects and Diseases of the Grape          | 2:25  |
| Necrosis and Yellowing Observed in Azaleas | 2:92  |
| Pine Seedling Root Rot Control             | 1:48  |
| Quarantines                                | 5:36  |
| Spot Anthracnose of Flowering Dogwood      | 8:16  |
| Sprays for Scales                          | 2:94  |

## AUTHORS

|                                                          |       |
|----------------------------------------------------------|-------|
| Andrews, Charles W.—Landscape Designer's First Interview | 5:15  |
| Bean, Robert—Public Relations for the Nurseryman         | 8:11  |
| Boddy, Manchester—Economic and Political Trends          | 4:9   |
| Bowers, Clement G.—Modern Rhododendrons and Azaleas      | 9:9   |
| Caddick, J. W.—Seedling Growth of Eriosema Plants        | 4:7   |
| Cummings, M. B.—Insects and Diseases of the Grape        | 2:25  |
| —Yews for Nurseries and Gardens                          | 12:13 |
| Drescher, Martin—Selling Landscape Plantings             | 4:13  |
| Fillmore, Richard H.—Modern Methods of Plant Propagation | 11:9  |
| Galle, F. C., and Nank, E. E.—Maple Leaf Patterns        | 2:13  |
| —Viburnum Leaf Patterns                                  | 9:10  |
| —Varieties of Osmanthus                                  | 10:13 |
| Graves, George—Viburnums of Variable Variety             | 2:27  |
| Hemming, E. Sam—This Business of Ours                    | 2:86  |
| Hopkins, Harold T.—Modern Scales                         | 9:22  |
| Ilgensfritz, James I. E.—Need for Soil Practices         | 8:13  |
| Kumlien, L. L.—Operating the General Retail Nursery      | 11:56 |
| Lewis, Clarence E.—Improved Foundation Plantings         | 9:7   |
| —Texture in Foundation Plantings                         | 10:9  |
| —Vines in Home Plantings                                 | 11:7  |
| —Plants for Seashore Planting                            | 12:9  |
| Monroe, Dr. Alan H.—Closing the Deal                     | 11:15 |
| Nank, E. E., and Galle, F. C.—Maple Leaf Patterns        | 2:13  |
| —Viburnum Leaf Patterns                                  | 9:10  |
| —Varieties of Osmanthus                                  | 10:13 |
| O'Rourke, F. L.—Honey Locust as a Shade and Lawn Tree    | 10:24 |
| Peacock, N. D.—Training Program for Nursery Personnel    | 6:14  |
| Quinlan, L. R.—Hardiness of Some Shrubs                  | 12:7  |
| Strander, John B.—Billboards at the Nursery              | 8:9   |
| Wells, James S.—Production of Hybrid Rhododendrons       | 1:11  |
| —Magnolias from Stem Cuttings                            | 10:7  |
| —Chlorosis in Azaleas                                    | 5:9   |
| Wood, C. W.—Alpines, More Notes on Some                  | 1:14  |
| —Plant Notes Here and There                              | 4:15  |
| Wysonk, Noel B.—Rapid Spread of Oak Wilt in Midwest      | 10:14 |

## MEETINGS

|                                                          |       |
|----------------------------------------------------------|-------|
| Alabama State Nurserymen's and Florists' Association     | 1:10  |
| All-America Rose Selections                              | 3:18  |
| Los Angeles Chapter                                      | 5:7   |
| American Horticultural Council                           | 11:38 |
| Association of Nursery Association Secretaries           | 3:19  |
| California Association of Nurserymen                     | 7:7   |
| —Central Chapter                                         | 11:43 |
| —Los Angeles Chapter                                     | 7:46  |
| —Redwood Empire Chapter                                  | 9:38  |
| —San Fernando Chapter                                    | 12:38 |
| —San Joaquin Chapter                                     | 11:44 |
| —Superior Chapter                                        | 12:38 |
| Georgia State Nurserymen's Association                   | 2:40  |
| Lake County Nurserymen's Association                     | 1:23  |
| Lorain County Nurserymen's Association                   | 6:35  |
| Maryland Nurserymen's Association                        | 8:30  |
| Minnesota State Nurserymen's Association                 | 12:11 |
| Mississippi Coast Florists' and Nurserymen's Association | 8:82  |
| Mississippi Florists' and Nurserymen's Association       | 2:19  |
| National Arborist Association                            | 7:10  |
| National Landscape Nurserymen's Association              | 3:17  |
| National Mail Order Nurserymen's Association             | 5:7   |
| —Pacific Coast Chapter                                   | 3:16  |
| National Plant Board                                     | 11:14 |
| National Shade Tree Conference                           | 7:9   |
| Nevada Association of Nurserymen                         | 8:81  |
| Northern Nut Growers Association                         | 7:11  |
| Nursery and Landscape Association of Dallas              | 1:21  |
| Oregon Association of Nurserymen                         | 8:7   |

|                                            |       |
|--------------------------------------------|-------|
| South Carolina Nurserymen's Association    | 2:23  |
| Southern Nurserymen's Association          | 6:7   |
| Texas Association of Nurserymen            | 6:9   |
| Utah Association of Nurserymen             | 11:47 |
| Virginia Nurserymen's Association          | 8:30  |
| Washington Society of Landscape Architects | 4:35  |
| Washington State Nurserymen's Association  | 5:11  |
| West Virginia Nurserymen's Association     | 6:11  |

## BOOK REVIEWS

|                                                      |                               |
|------------------------------------------------------|-------------------------------|
| A. A. N. Proceedings                                 | 8:38                          |
| Annals of Louisville Retail Nurserymen's Association | 8:37                          |
| Britain's Green Mantle                               | 6:34                          |
| Bulletins Received                                   | 2:78; 4:30; 8:38; 9:40; 11:37 |
| Colorado Evergreens                                  | 4:28                          |
| Florist Crop Production and Marketing                | 4:28                          |
| Flower Arrangement Calendars                         | 9:40                          |
| Garden Book                                          | 9:39                          |
| Gardeners Travel Book, The                           | 9:38                          |
| Garden Workbook and Diary                            | 11:37                         |
| Genetics in Swedish Forestry Practice                | 8:36                          |
| Grassroots Gardening                                 | 8:36                          |
| Grafter's Handbook, The                              | 4:28                          |
| Hemerocallis Yearbook                                | 6:34                          |
| Hill's Evergreens                                    | 11:38                         |
| How to Beautify and Improve Your Home Grounds        | 9:38                          |
| Humus and the Farmer                                 | 6:34                          |
| Huntington Botanical Gardens, The                    | 9:38                          |
| Iris for Every Garden                                | 9:38                          |
| Irrigated Soils, Their Fertility and Management      | 8:36                          |
| Manual of Cultivated Plants                          | 2:76                          |
| Northern Nut Growers' Association Proceedings        | 4:28                          |
| Orchids Are Easy to Grow                             | 2:76                          |
| Plant Buyers Guide                                   | 11:36                         |
| Symposium on Roses                                   | 2:76                          |
| Trees                                                | 8:36                          |
| Vegetable Calendar, The                              | 8:36                          |
| Woody-plant Seed Manual                              | 11:38                         |

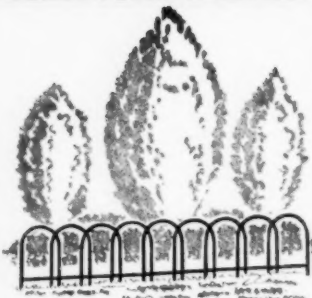
## BIOGRAPHICAL PORTRAITS

|                      |       |
|----------------------|-------|
| Amos, John E.        | 6:12  |
| Clarke, James F.     | 2:11  |
| Curtis, Vallean C.   | 12:14 |
| Daniels, W. C.       | 6:7   |
| Grootendorst, Gerard | 5:14  |
| Harris, Glen F.      | 1:10  |
| Ilse, Harold S.      | 2:11  |
| King, Don D.         | 8:9   |
| Perkins, Clarence    | 2:10  |
| Plath, Herbert       | 2:10  |
| Plath, Richard       | 2:10  |
| Reid, Harold S.      | 2:10  |
| Sandkuhle, Herman    | 2:10  |
| Seyler, Harold G.    | 12:14 |
| Stephens, C. Elwood  | 8:10  |
| Stocking, Clyde      | 2:10  |
| Murkhardt, Otto      | 2:46  |
| Wilson, James        | 11:11 |
| Zimmerman, Ernest    | 6:12  |

## OBITUARIES

|                              |       |
|------------------------------|-------|
| Ball, George J.              | 7:43  |
| Beam, R. Ray                 | 11:34 |
| Berkery, Margaret J.         | 1:23  |
| Biles, Andrew J.             | 11:35 |
| Brown, Ellsworth             | 7:44  |
| Burkhardt, Otto              | 1:28  |
| Cooper, Gordon               | 2:46  |
| deWilde, Roland, Sr.         | 12:30 |
| Dickson, Alexander           | 1:22  |
| Field, Henry                 | 9:32  |
| Fisher, D. F.                | 8:28  |
| Fitzgerald, J. E.            | 5:40  |
| Ford, Howard W.              | 12:30 |
| Fraim, Edward                | 12:31 |
| Gaddis, B. M.                | 7:43  |
| Gaston, Thomas Eugene        | 12:30 |
| Griffing, Walter Combes      | 11:32 |
| Gilbey, Arthur               | 1:22  |
| Kelly, William F.            | 3:50  |
| Korfage, Louis J., Jr.       | 11:34 |
| Marshall, Harvey W.          | 1:22  |
| McIlhenny, Edward A.         | 5:40  |
| Mundy, Mrs. L. C.            | 10:44 |
| Naughton, Edward M.          | 8:28  |
| Oliver, Paul                 | 10:44 |
| Pingst, Emmett J.            | 12:31 |
| Rehder, Alfred               | 3:51  |
| Ruth, Dr. Warren A.          | 2:46  |
| Sass, Hans Peter             | 9:35  |
| Simko, Stephen               | 2:46  |
| Simons, Charles W.           | 2:46  |
| Stricklen, Guy M.            | 11:34 |
| Surtees, John                | 11:34 |
| Taylor, Elizabeth            | 9:35  |
| Thornhill, Charla Bennett    | 7:43  |
| Wade, Bryan L.               | 4:33  |
| Wedding, Mrs. Rowena Carolyn | 5:40  |
| Whitney, Wendell R.          | 9:32  |
| Wilde, Dr. R. L.             | 8:28  |
| Wine, Charles B.             | 8:50  |
| Wine, Mrs. Elizabeth M.      | 8:1   |
| Wise, Pauline Crum           | 10:44 |
| Yerkes, Guy E.               | 1:23  |



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foliage in the fall include Mongolian oak, red oak, red maple, dwarf winged euonymus, Peking and hedge cotoneasters, staghorn sumac, Vanhoutte spiraea, Nippon euonymus, Rosabelle spiraea and chokeberries, aronia.

In yellow and golden foliages the most esteemed are aspen, white birch, cottonwood, green ash, elm, Van Gert's golden poplar, larch, hackberry, black walnut, many crab apples, securinega, Goldenplume European red elder, Golden American elder, Amur cork tree, cherry prinsepia, Amur tamarix, redbud (which is sometimes tender), Tatarian maple and bittersweet, of which pollen plants tend to remain green much longer than pistillate ones.

Bronzes, orange-reds and red-oranges include the large proportion of shrubs that form native thickets and underbrush. Examples are noted in many hawthorns, viburnums, hazels or filberts, mountain maple, bur oak, native plums and some cherries. Usually the first tree to take on stimulating bronze is the Ohio buckeye or American horse chestnut. It is followed by cutleaf crab apple, spiraeas, cotoneasters, Rugosa rose, apricots, Morello cherries, ironwood, mountain ash and Siberian crab apple.

Purple and purple-reds are of rich hues, but usually less vivid than the clearer reds. Plants of purplish effect include red osier dogwood, Kesselring dogwood, Schubert chokecherry, Cistena cherry, early lilac (*Syringa oblata*), some Rosybloom crab apples, select Asiatic pears, some roses and a few gooseberries and blackberries.

Gray and yellow-gray foliages are provided by Russian olive, buffalo berry, sandthorn or sea buckthorn, silverberry, Siberian silver willow and salt tree.

Most woody plants undergo color changes in their autumn foliage. A few retain their greenness until the leaves fall in late October. Examples of such are the laurel willow and the speckled alder. The majority of materials composing the casual shruberies and groves, although colored, are not particularly impressive in their autumn display.

FORMAL opening of Morrison's Floral & Nursery Co., 1411 Claiborne avenue, Shreveport, La., was held November 4 and 5.

ANNOUNCEMENT of the discontinuation of Doty's Nursery and Doty's Plant Sales has been made by Chester C. Doty, Dunkirk, N. Y., owner.

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